

Fig. 1A

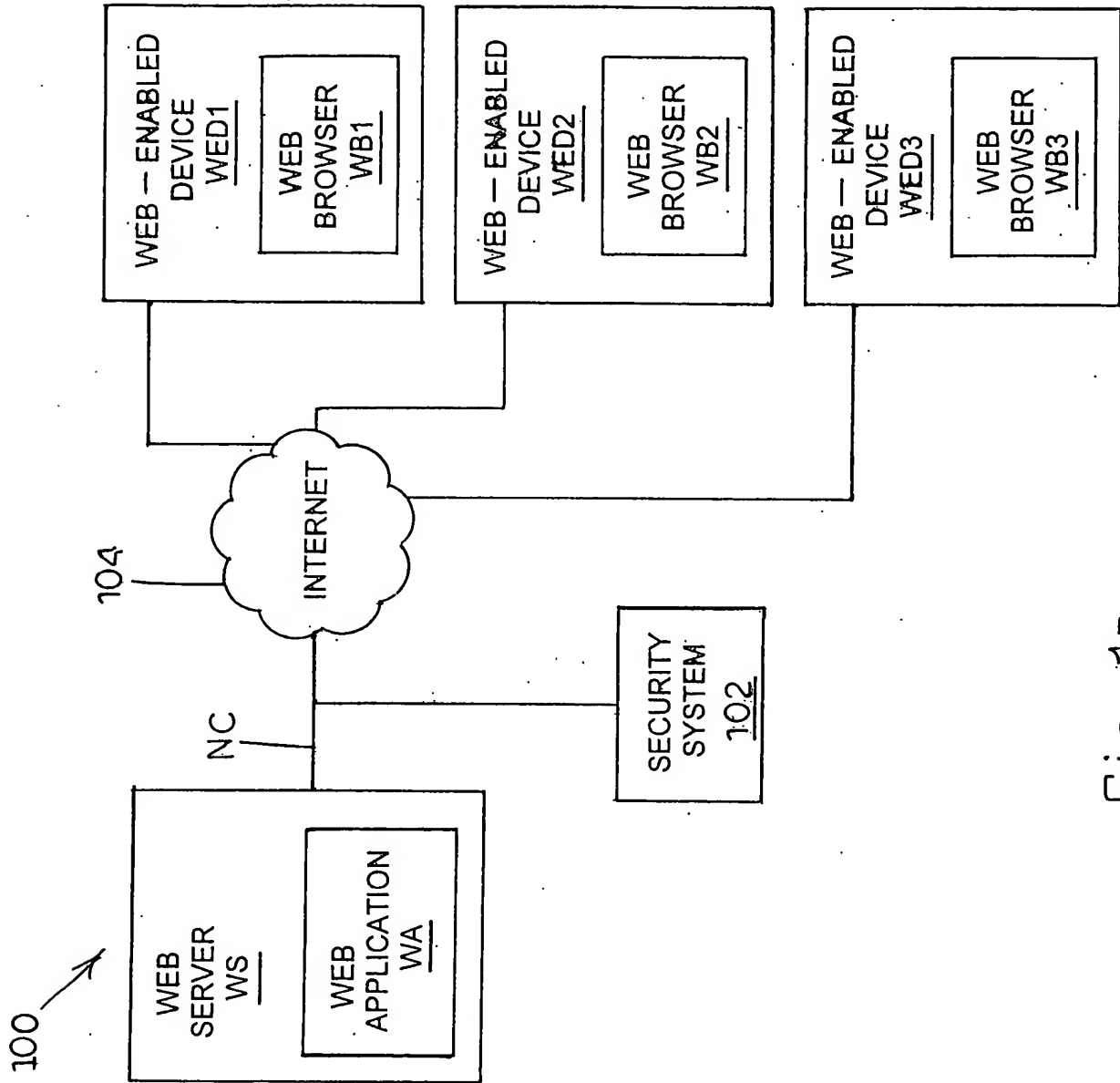


Fig. 1B

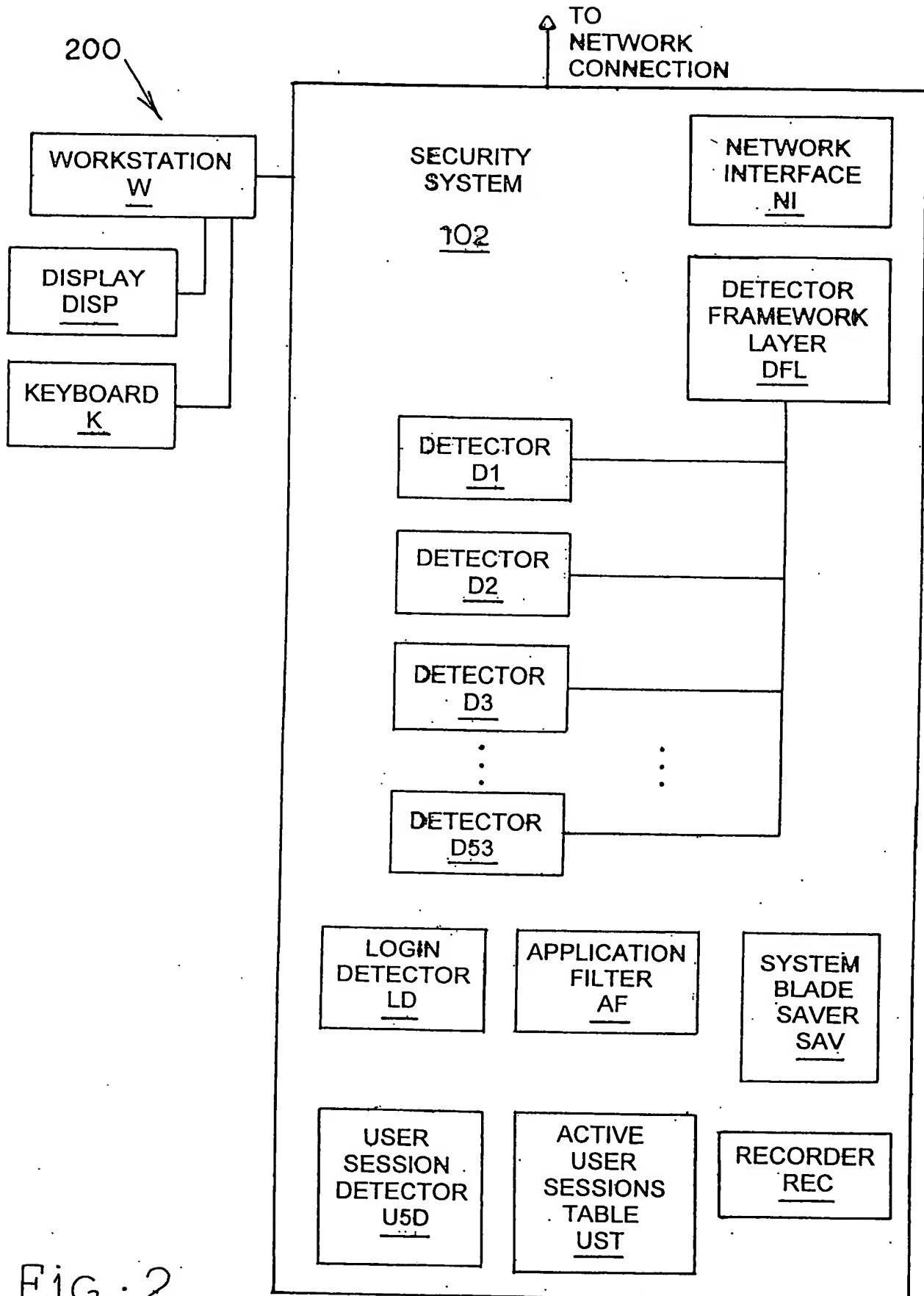


Fig. 2

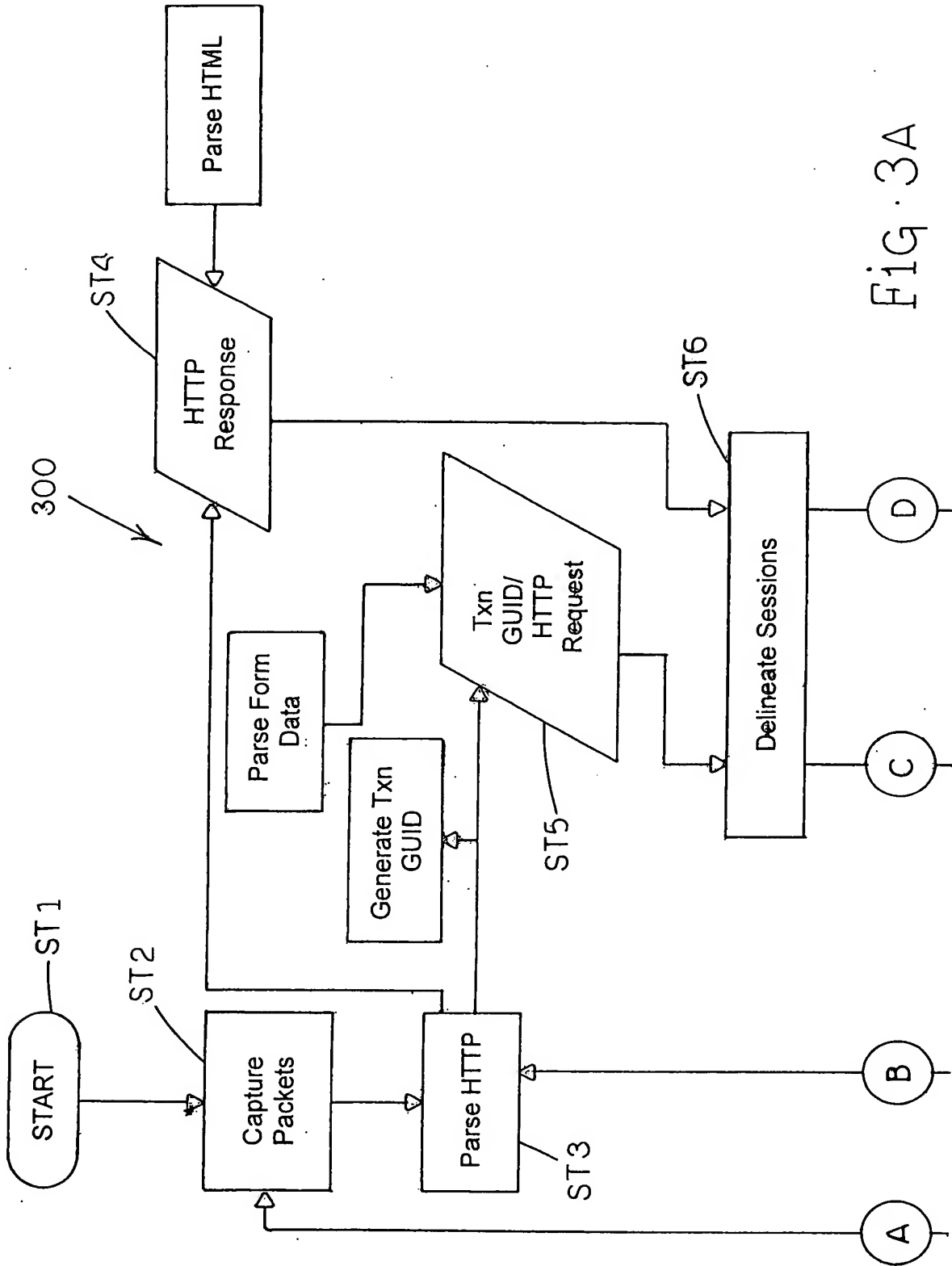


Fig. 3A



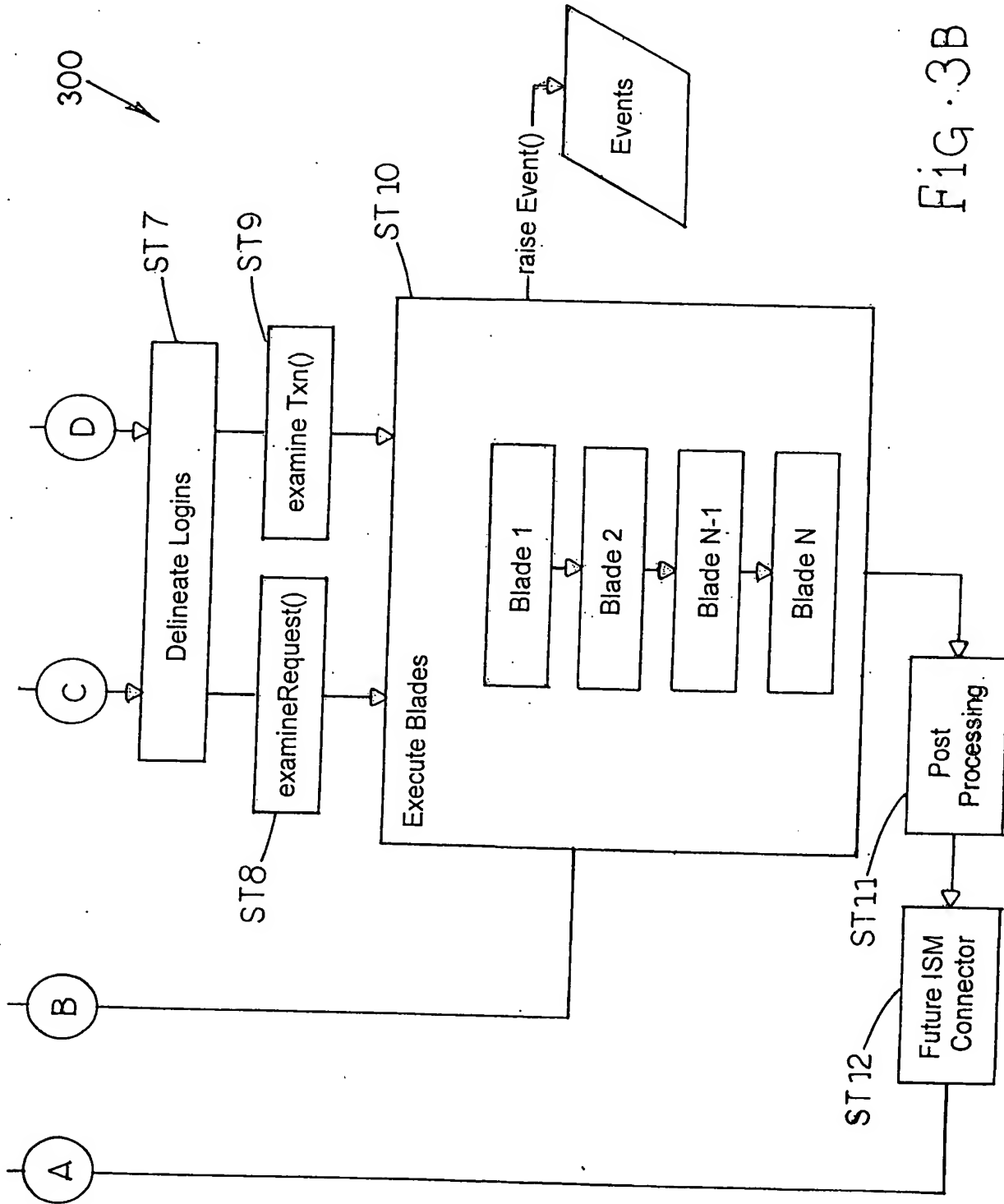


Fig. 3B

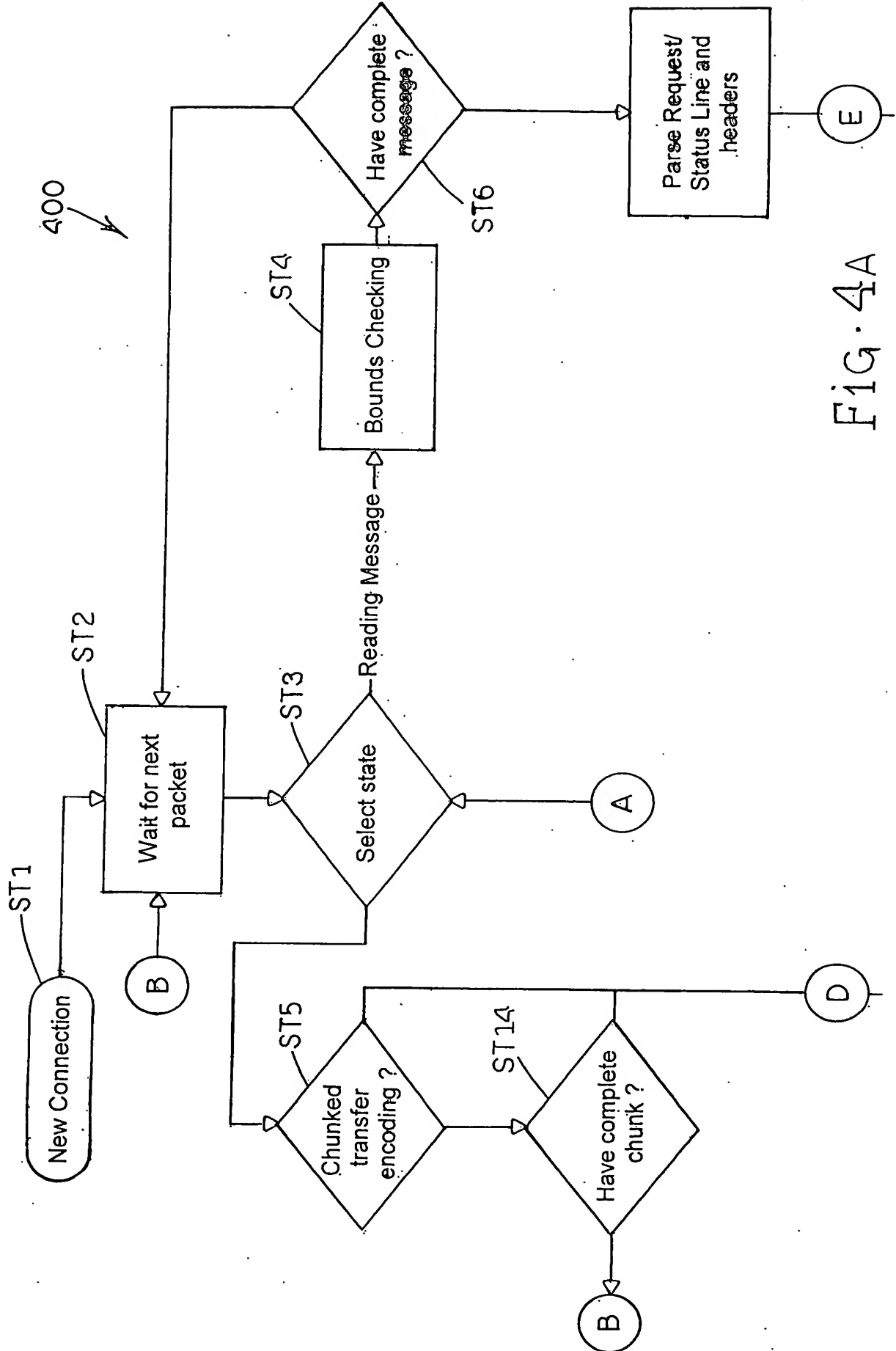


Fig. 4A

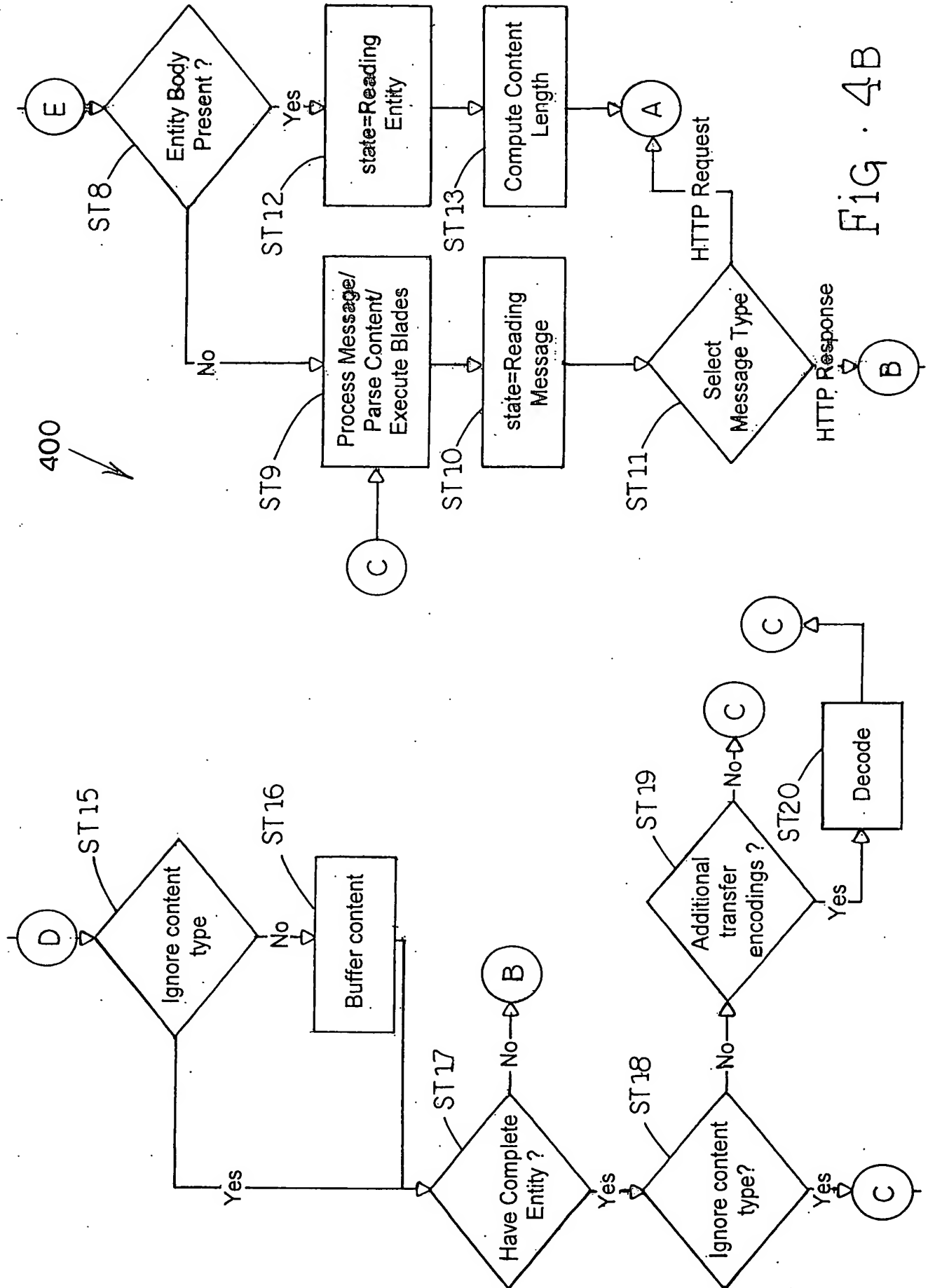


Fig. 4B

500

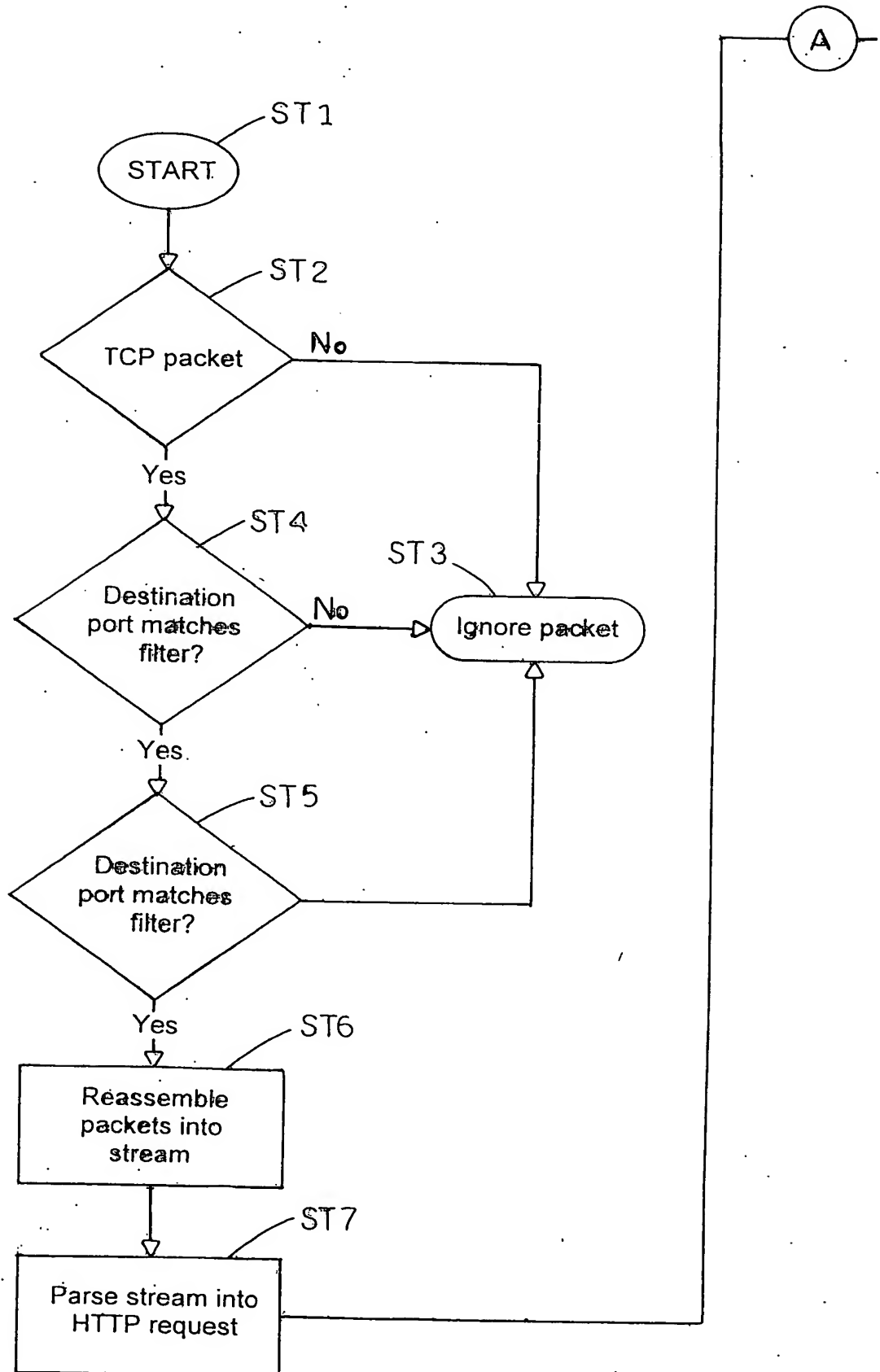
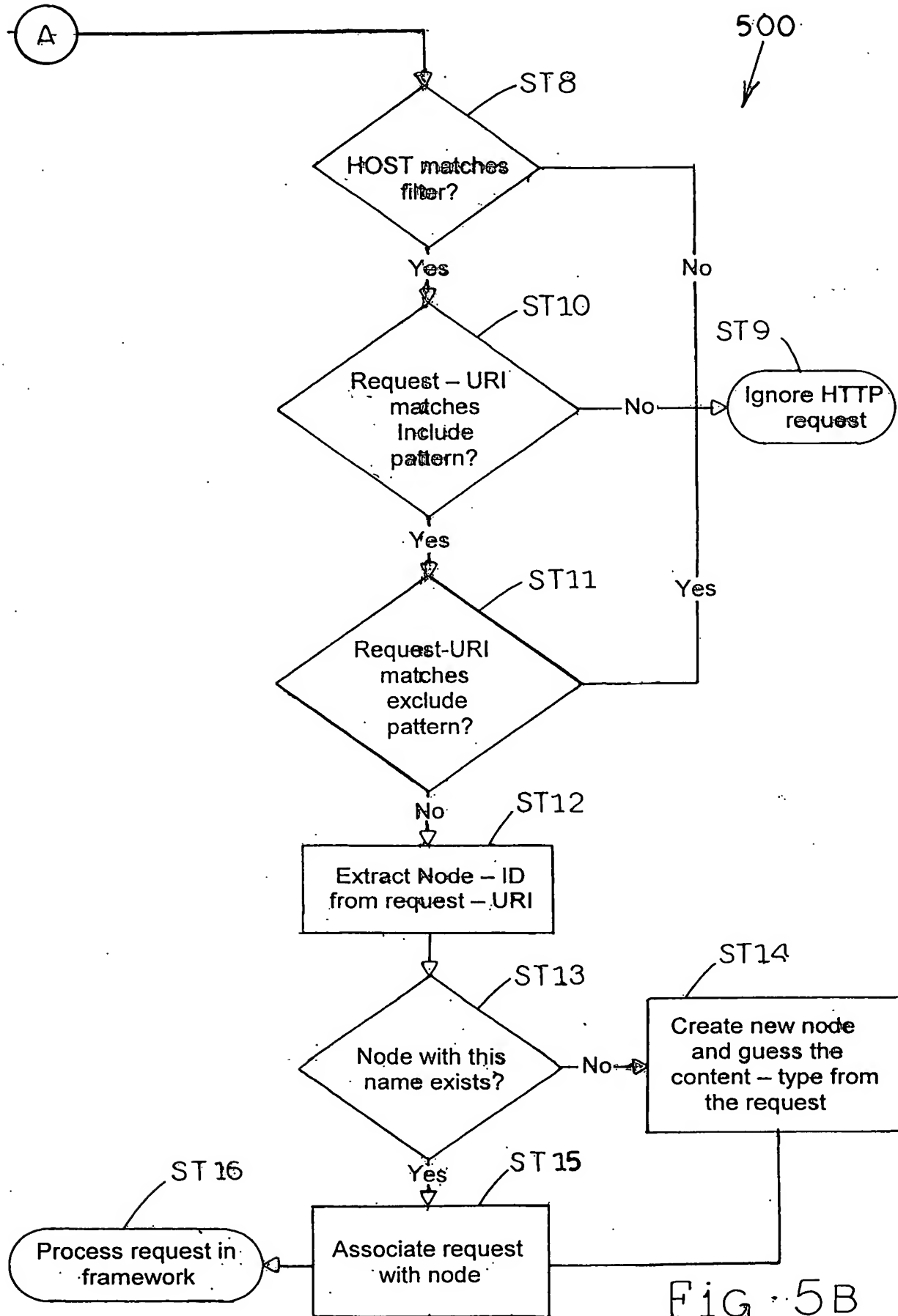
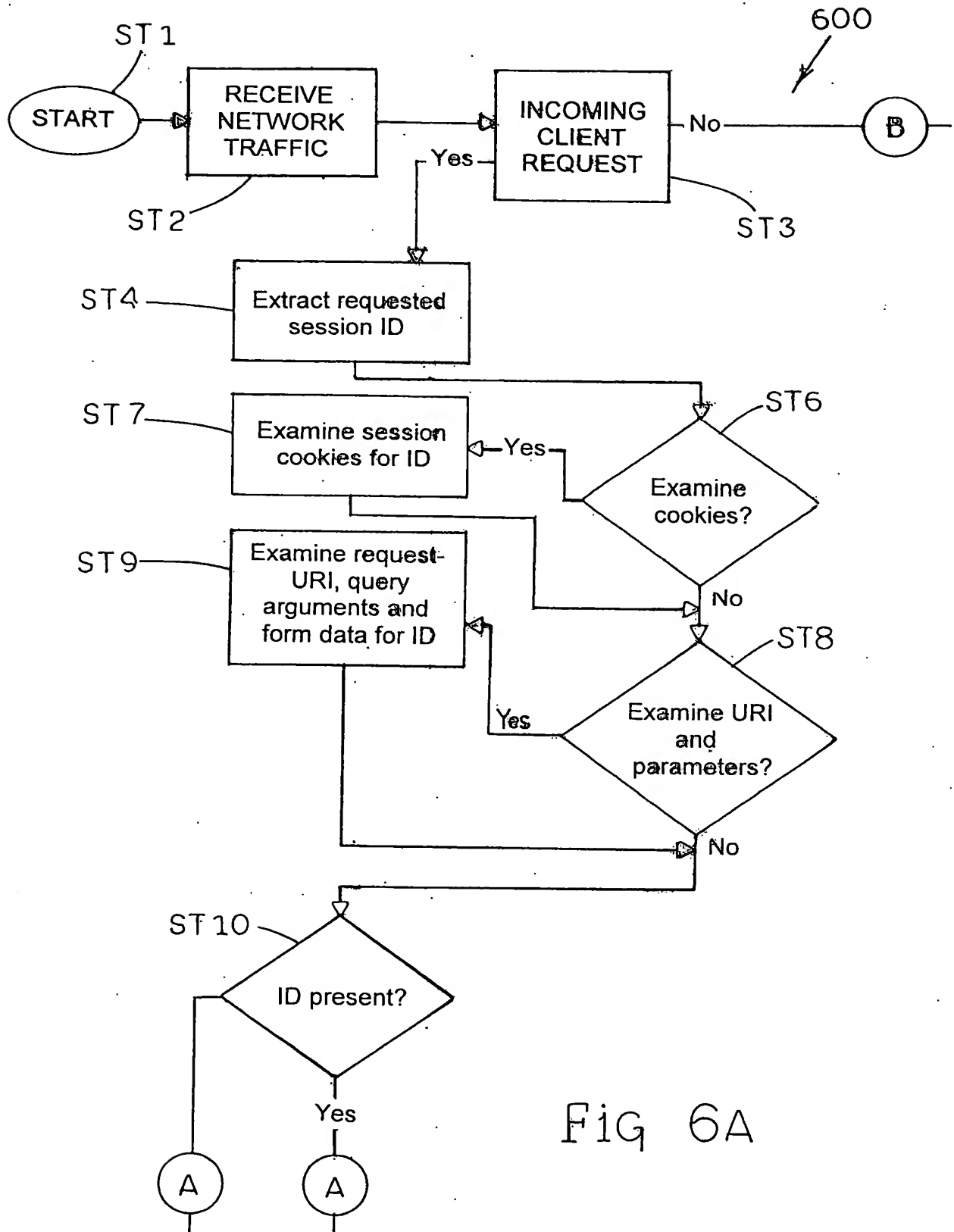


FIG. 5A





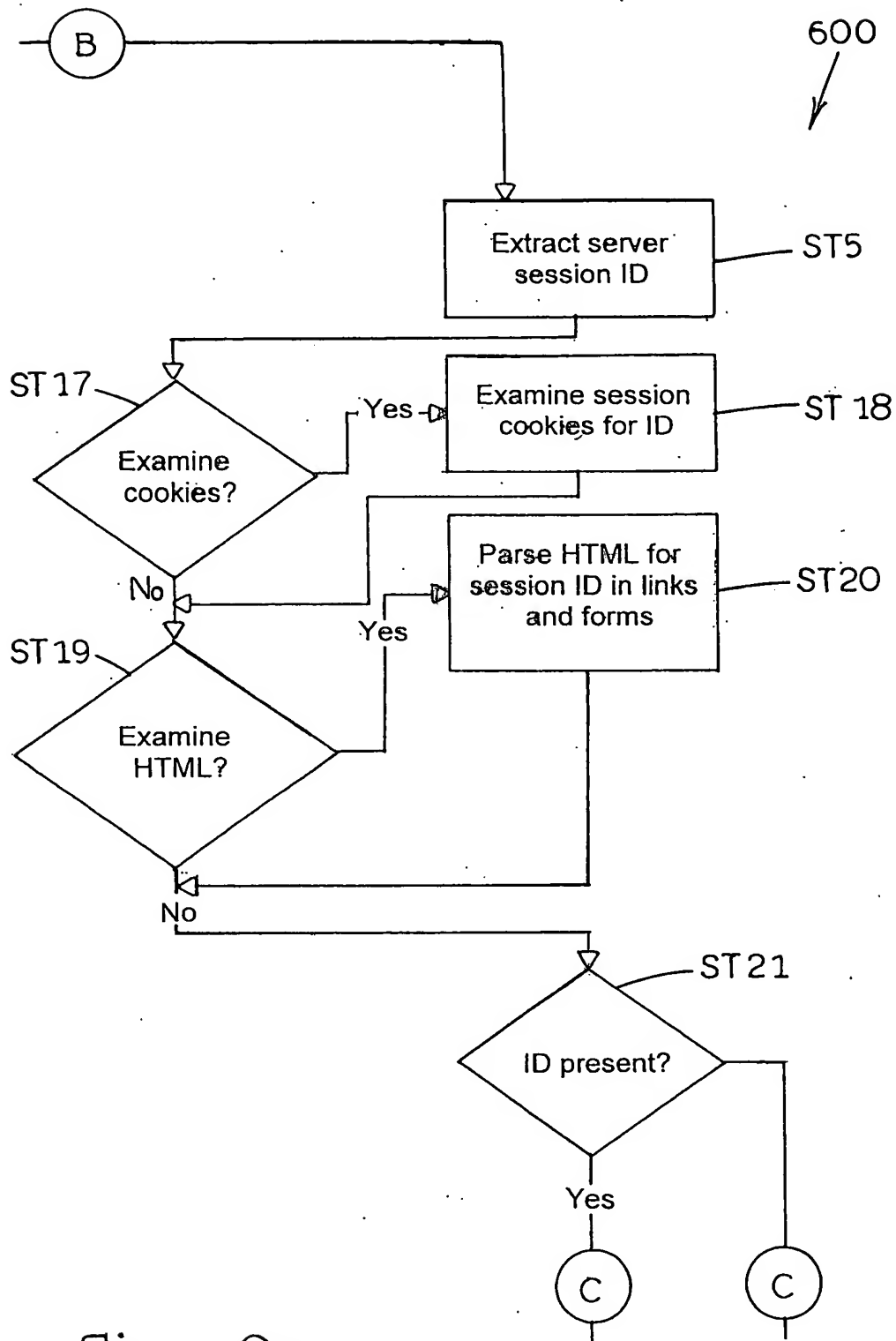
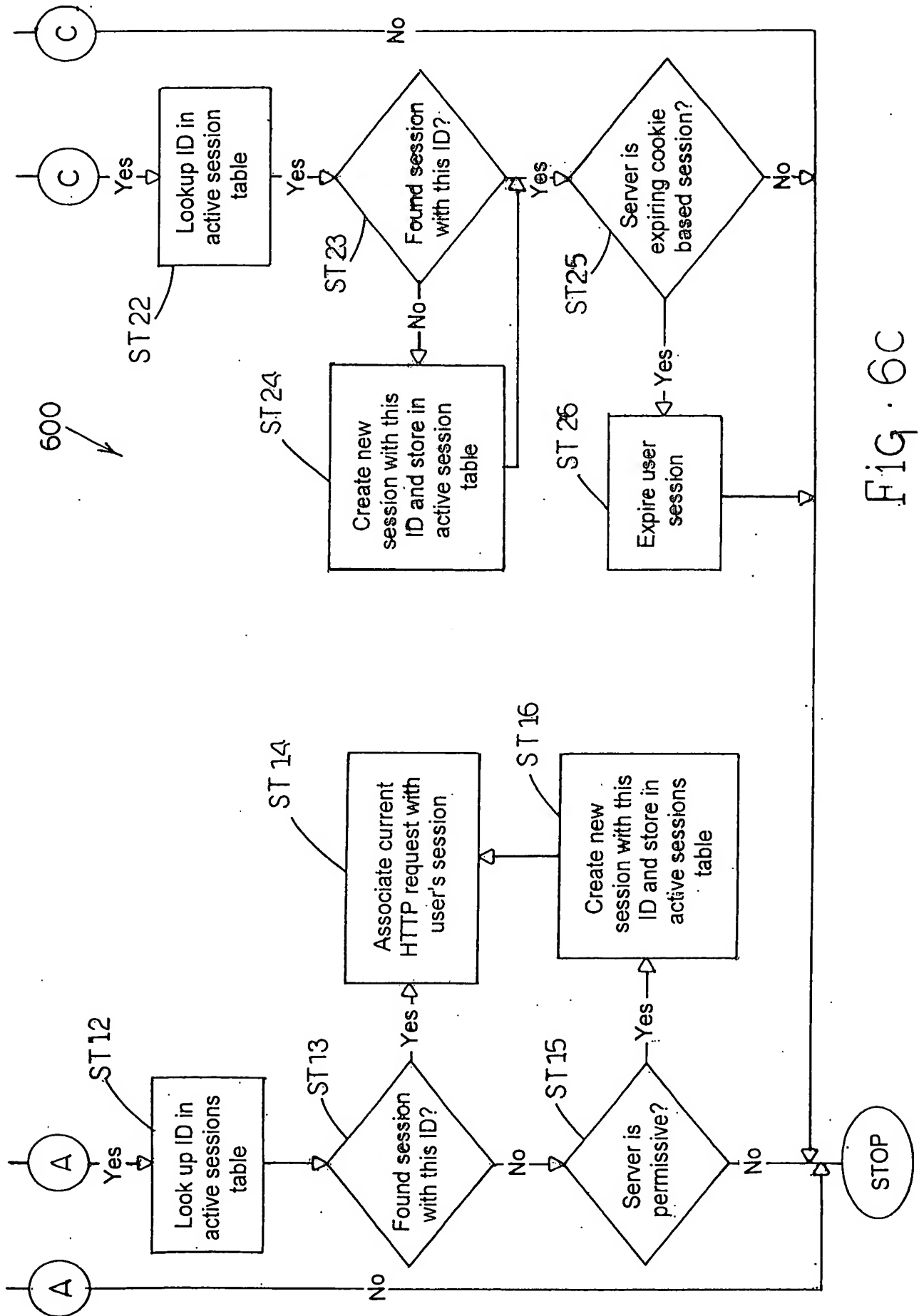
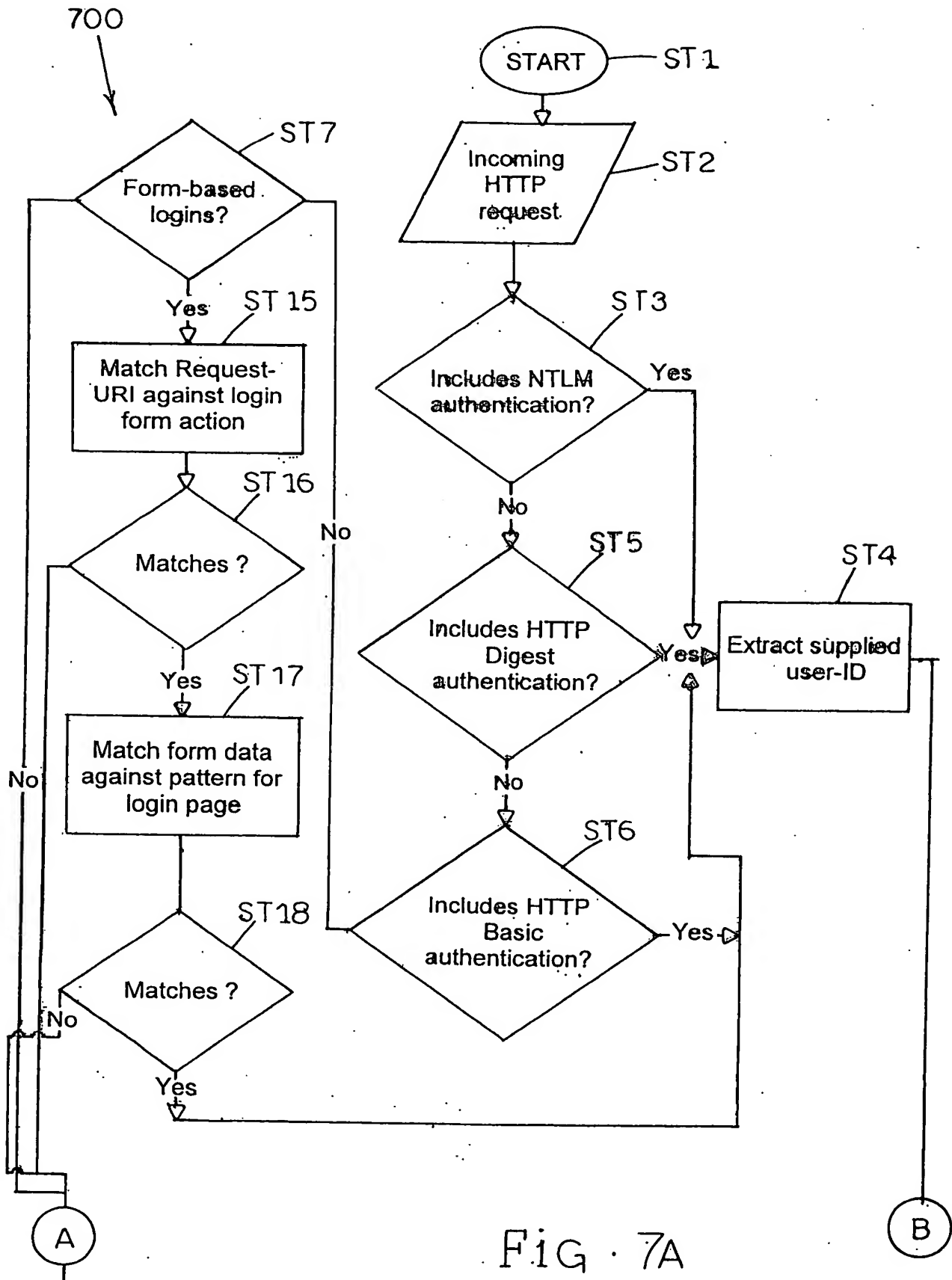
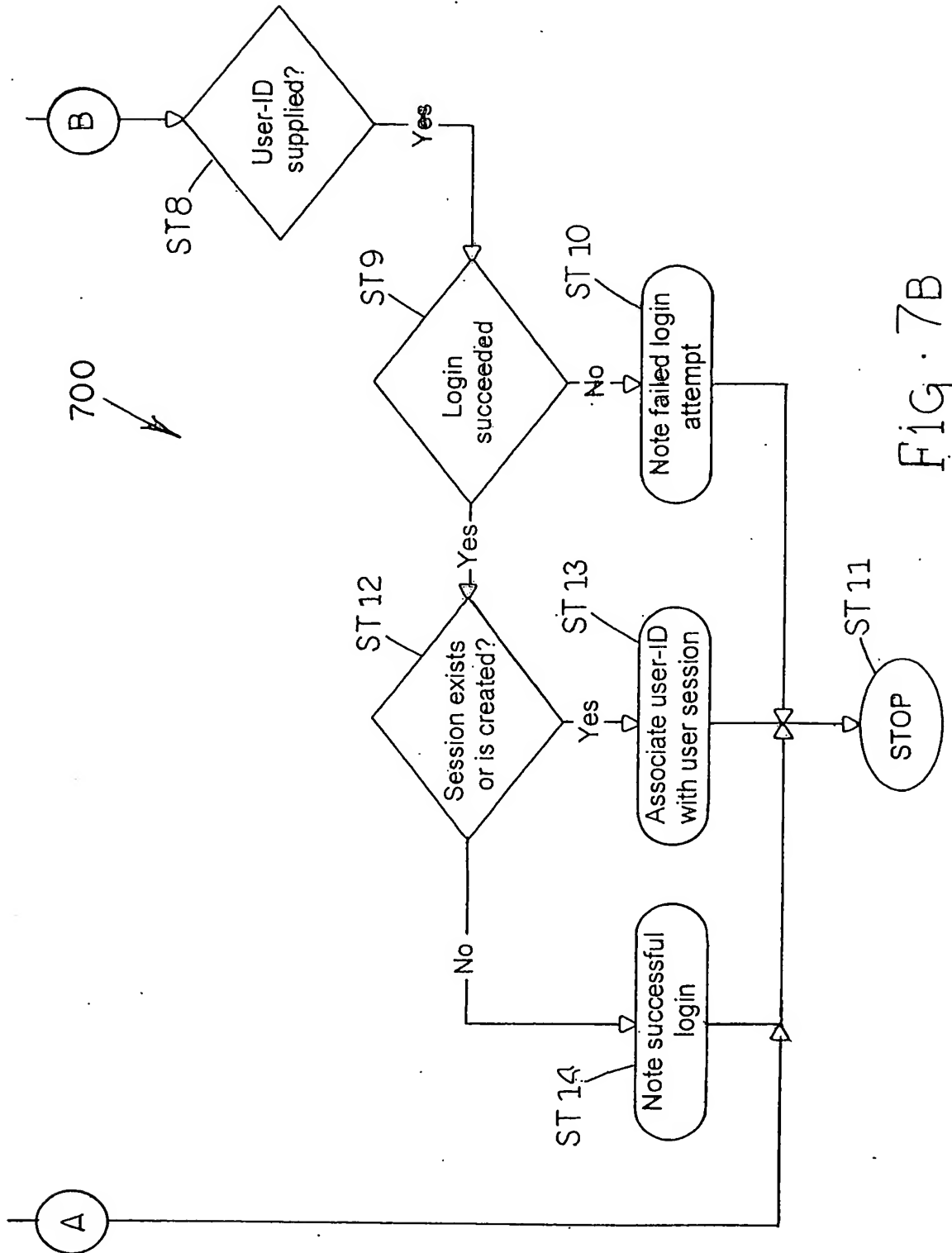


Fig. 6B









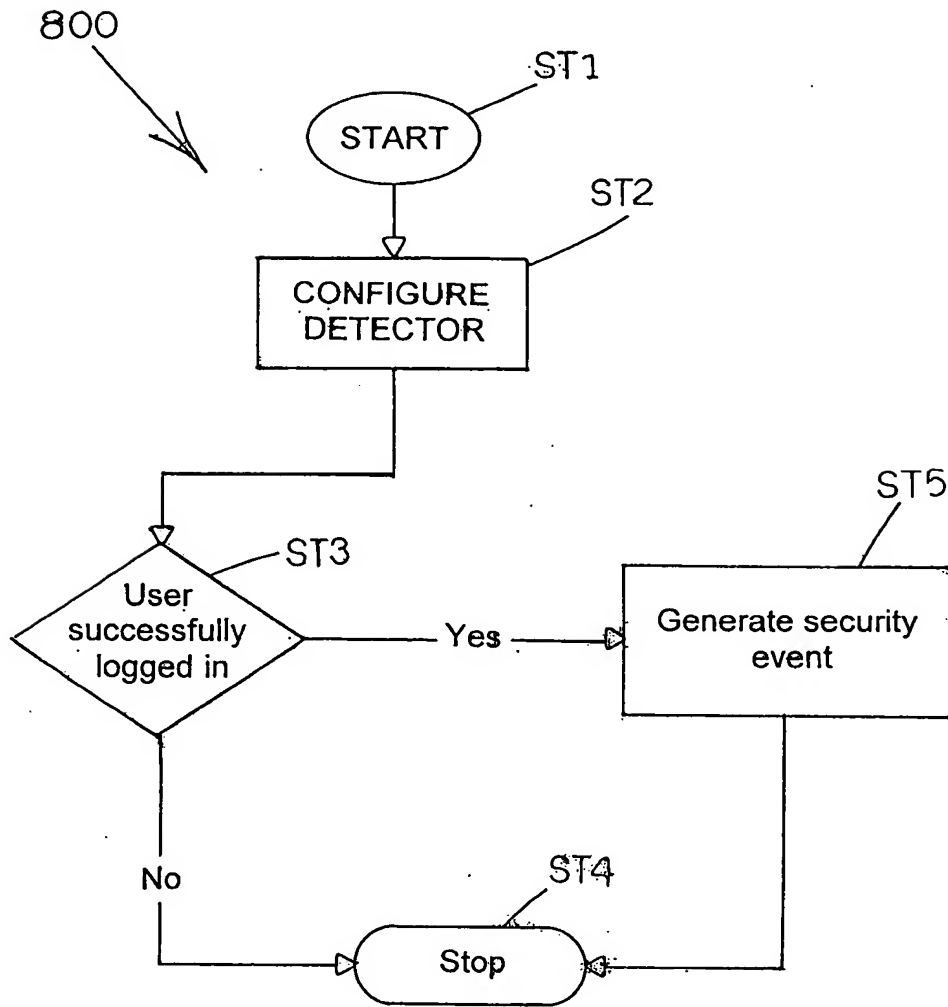


Fig. 8

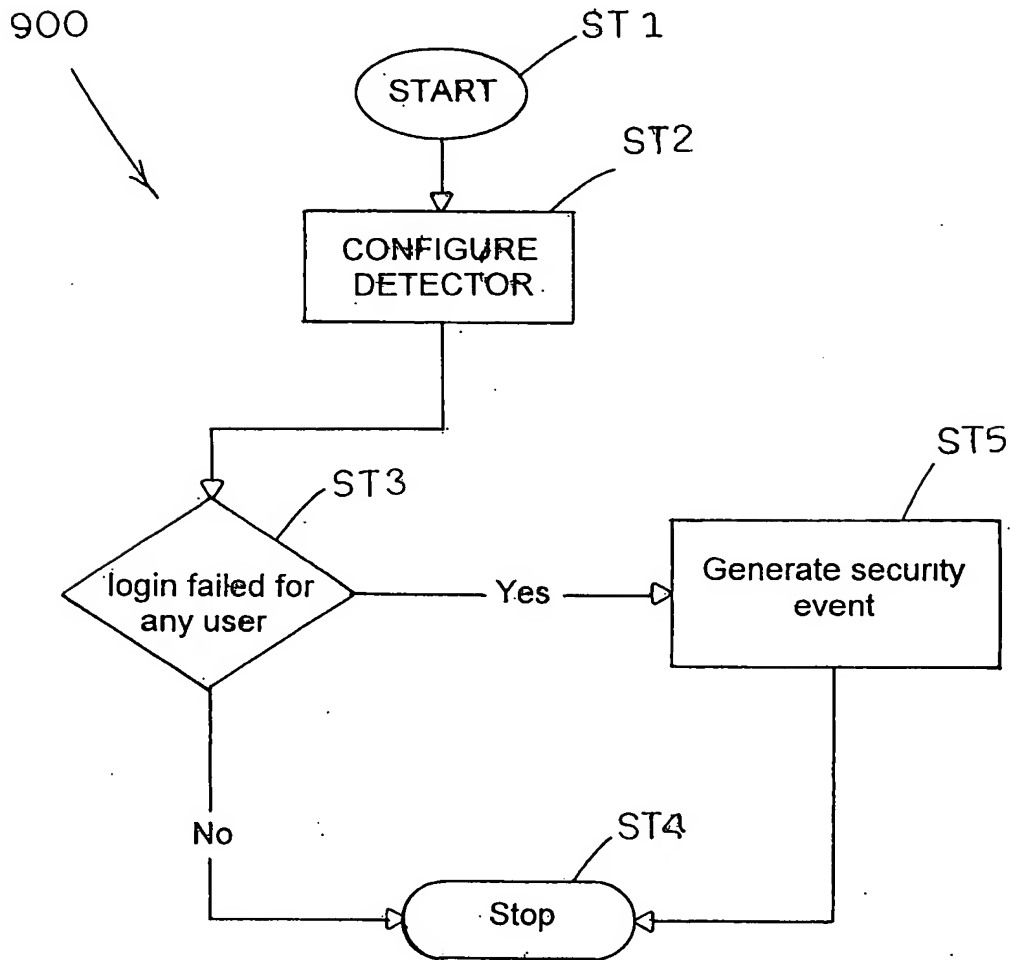


FIG. 9

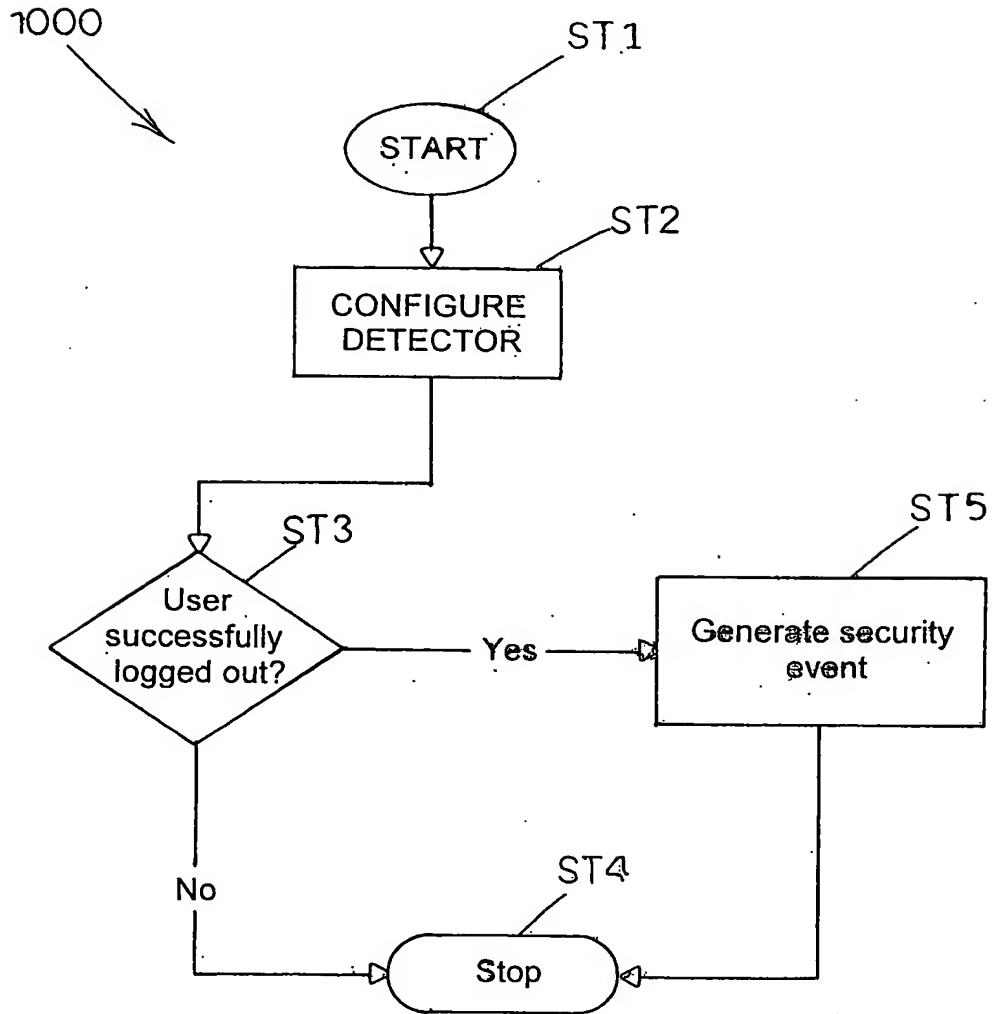


Fig. 10

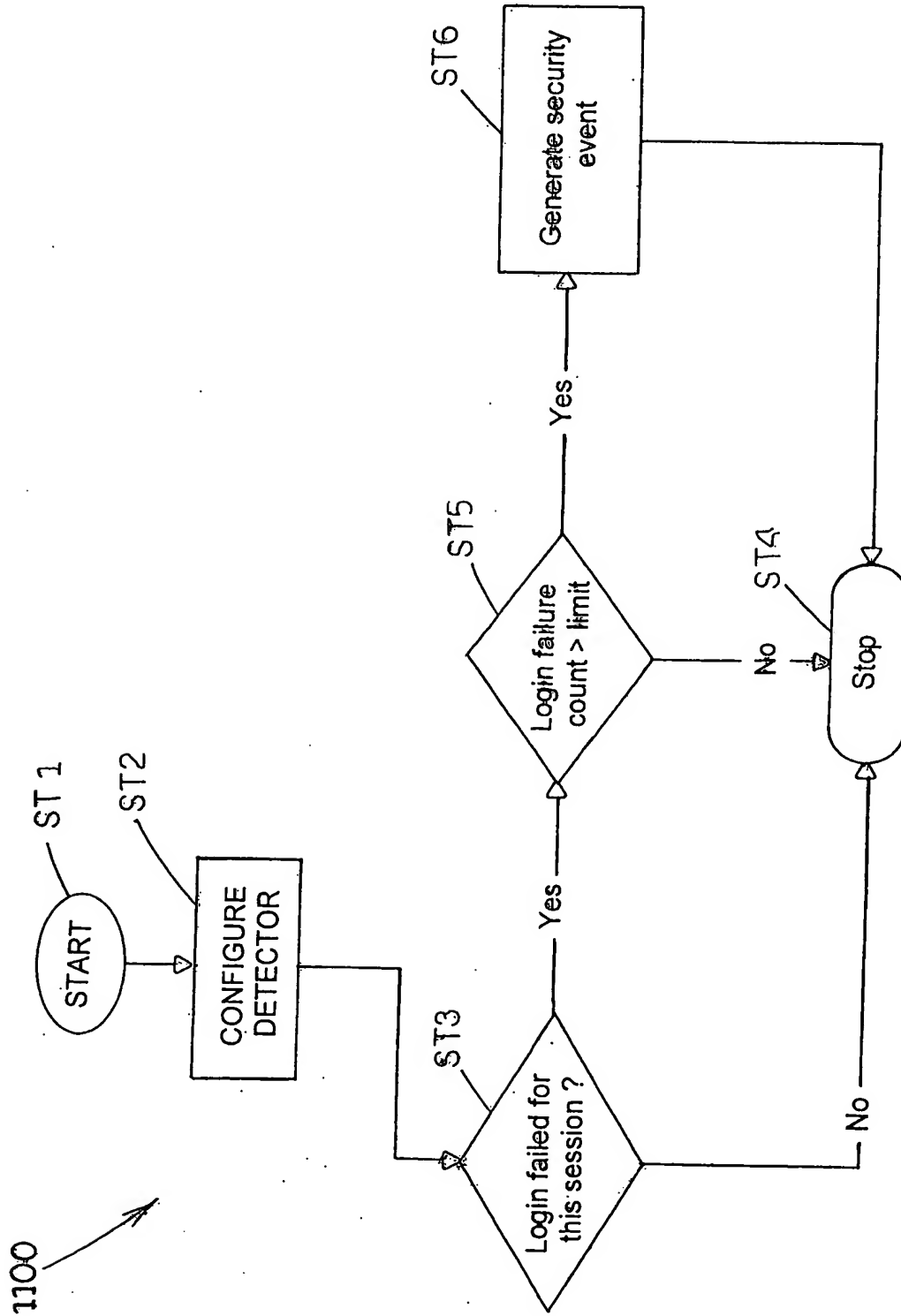


Fig. 11

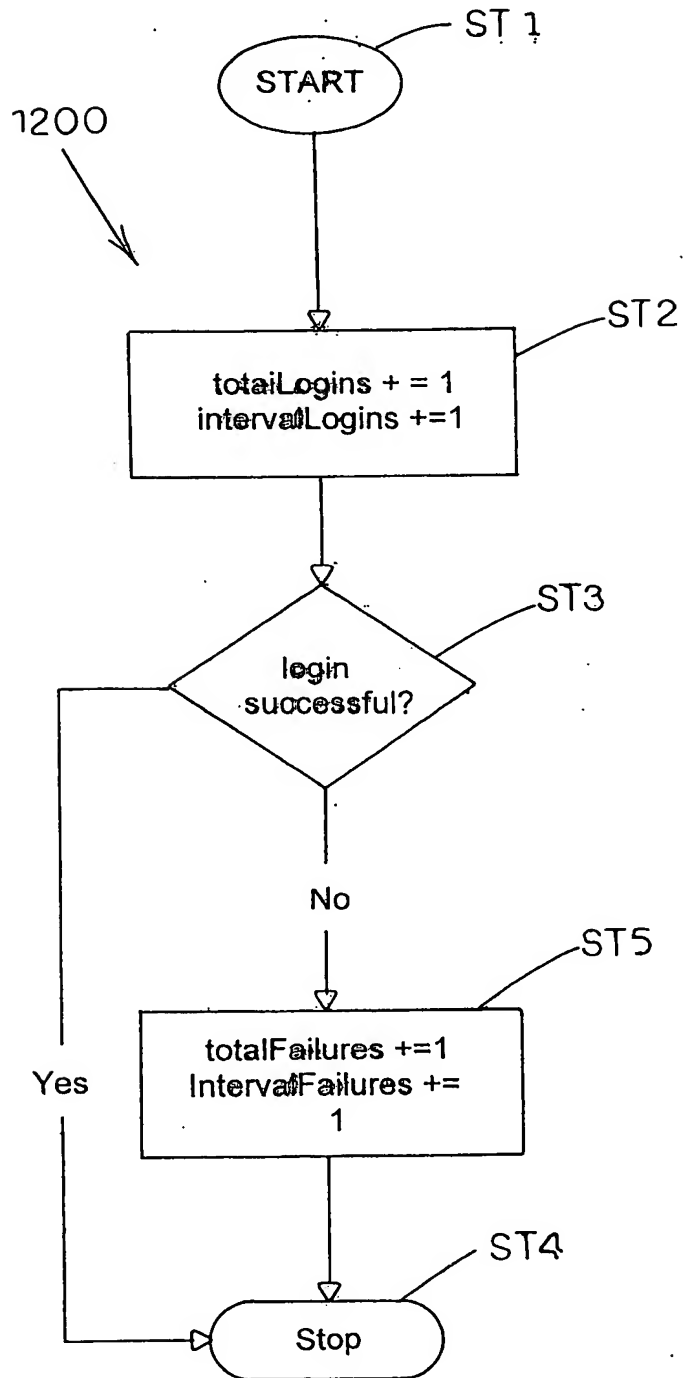


Fig. 12A

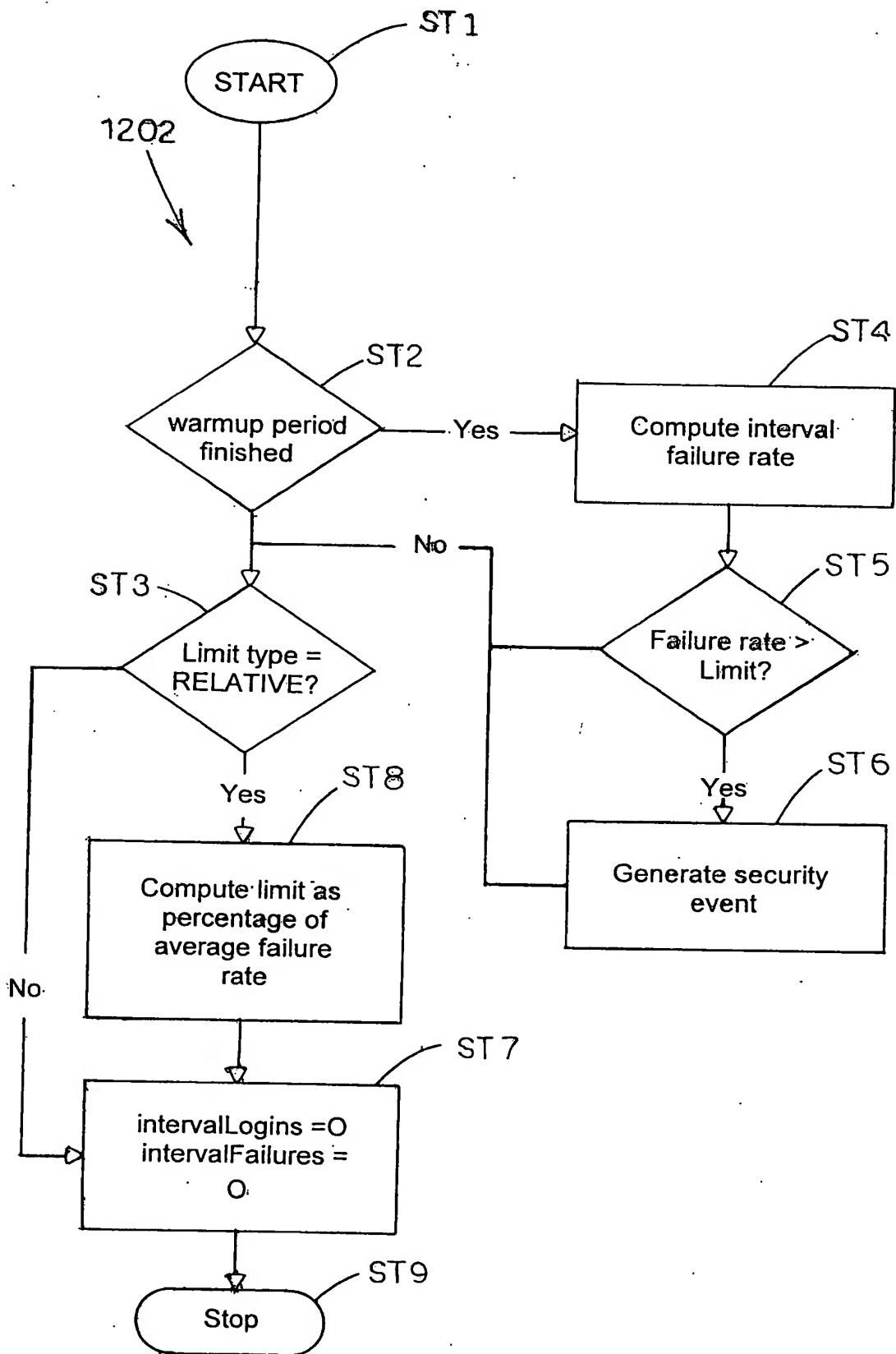


Fig. 12B



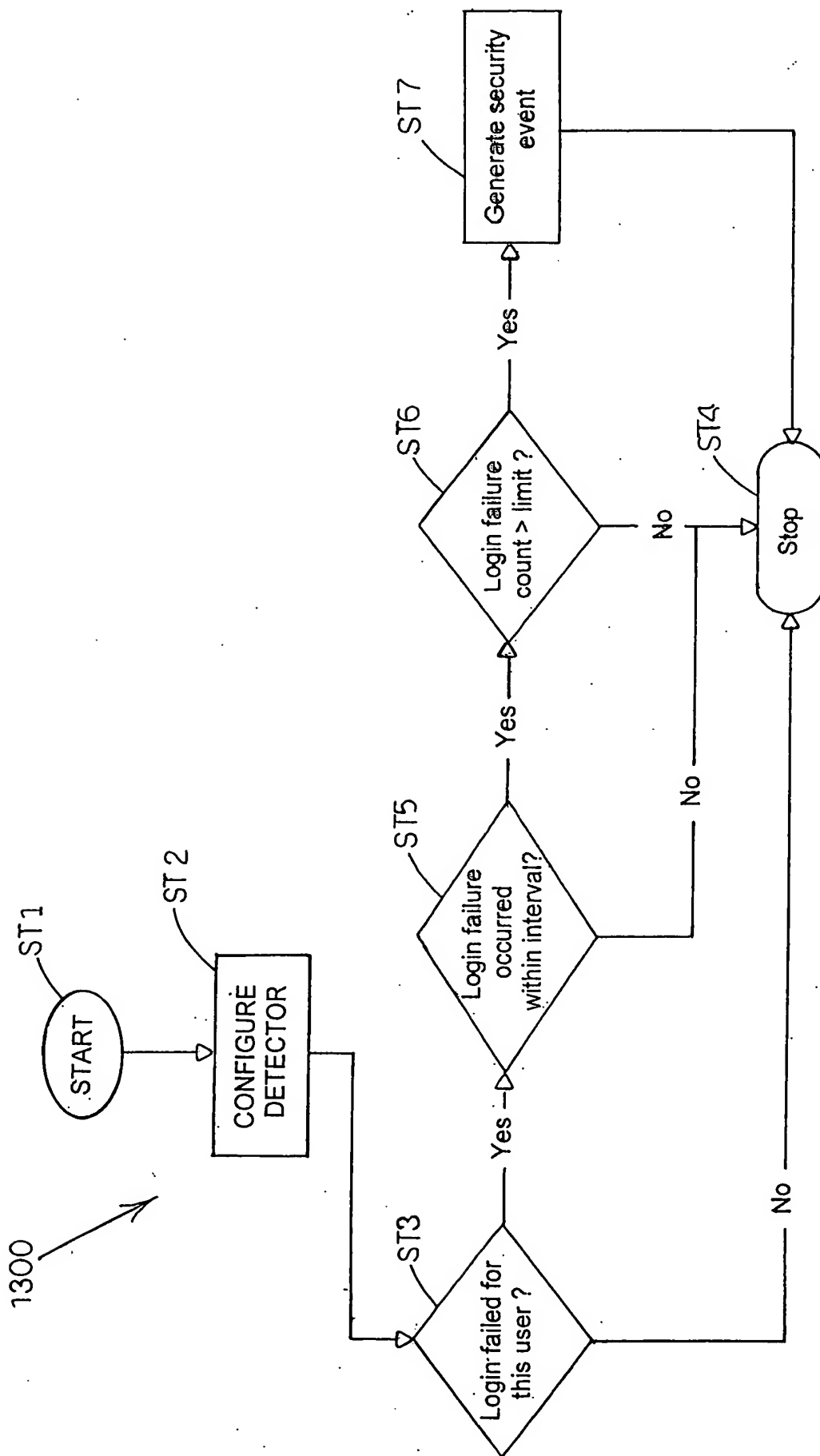


Fig. 13

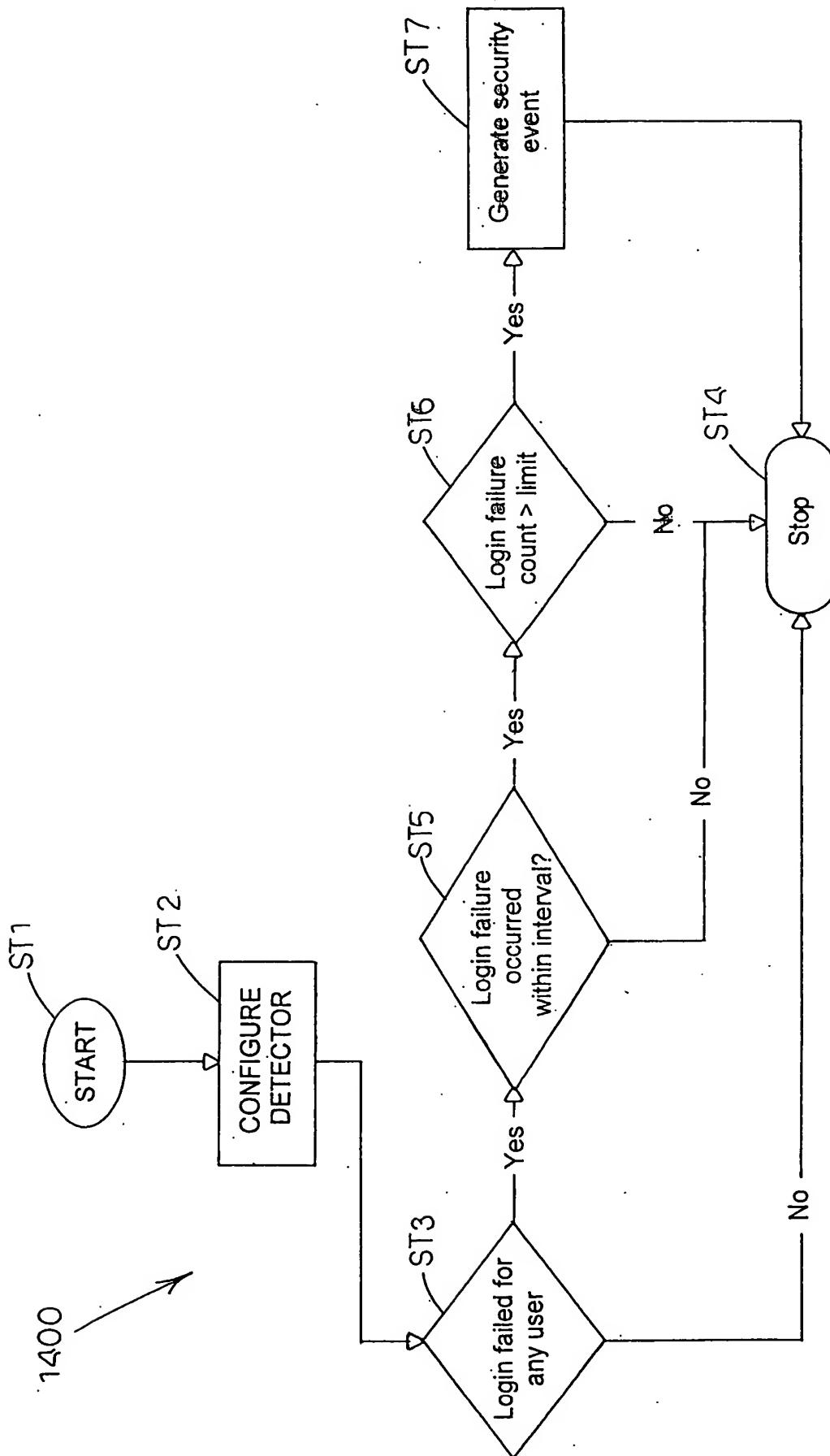


Fig. 14

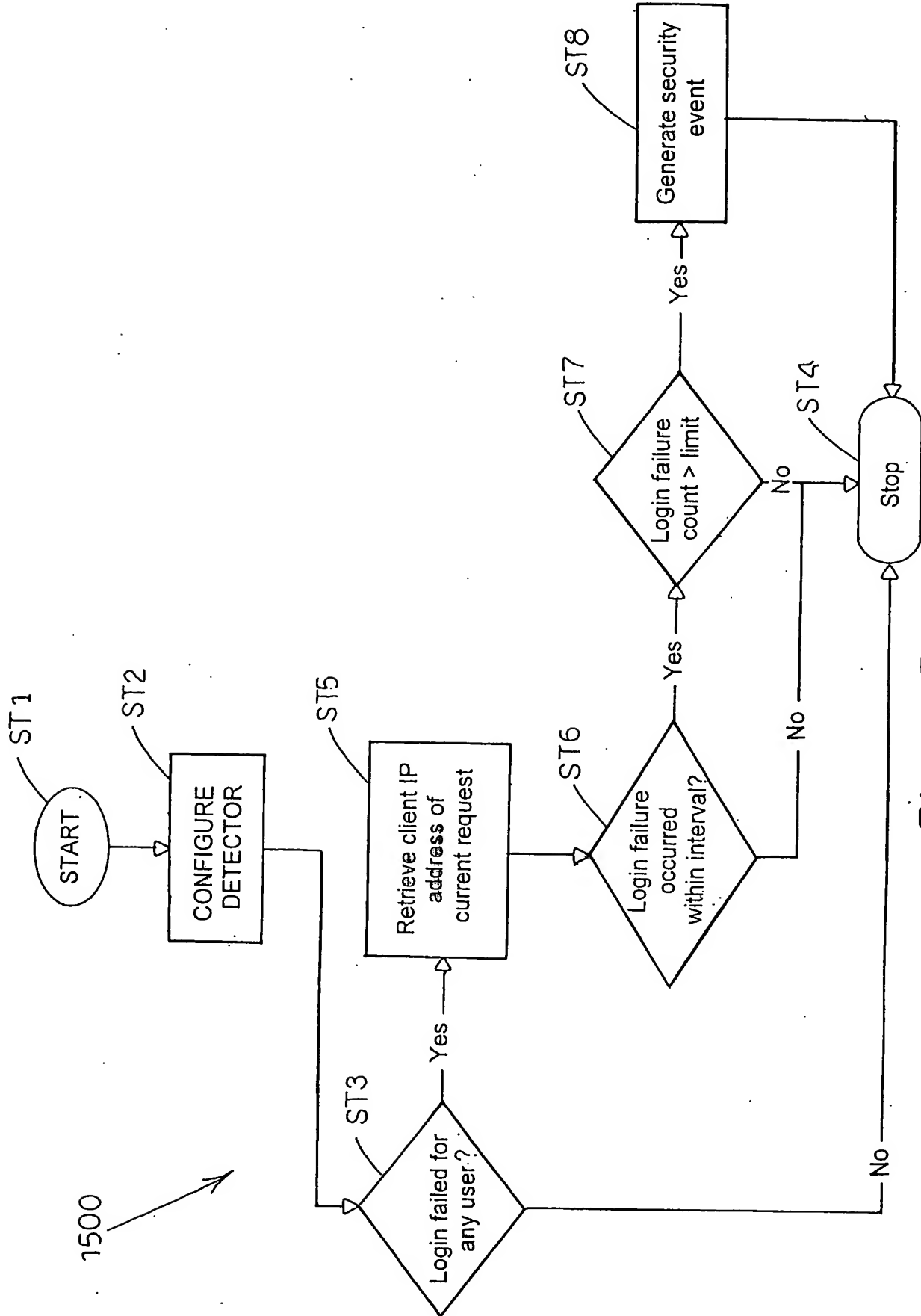
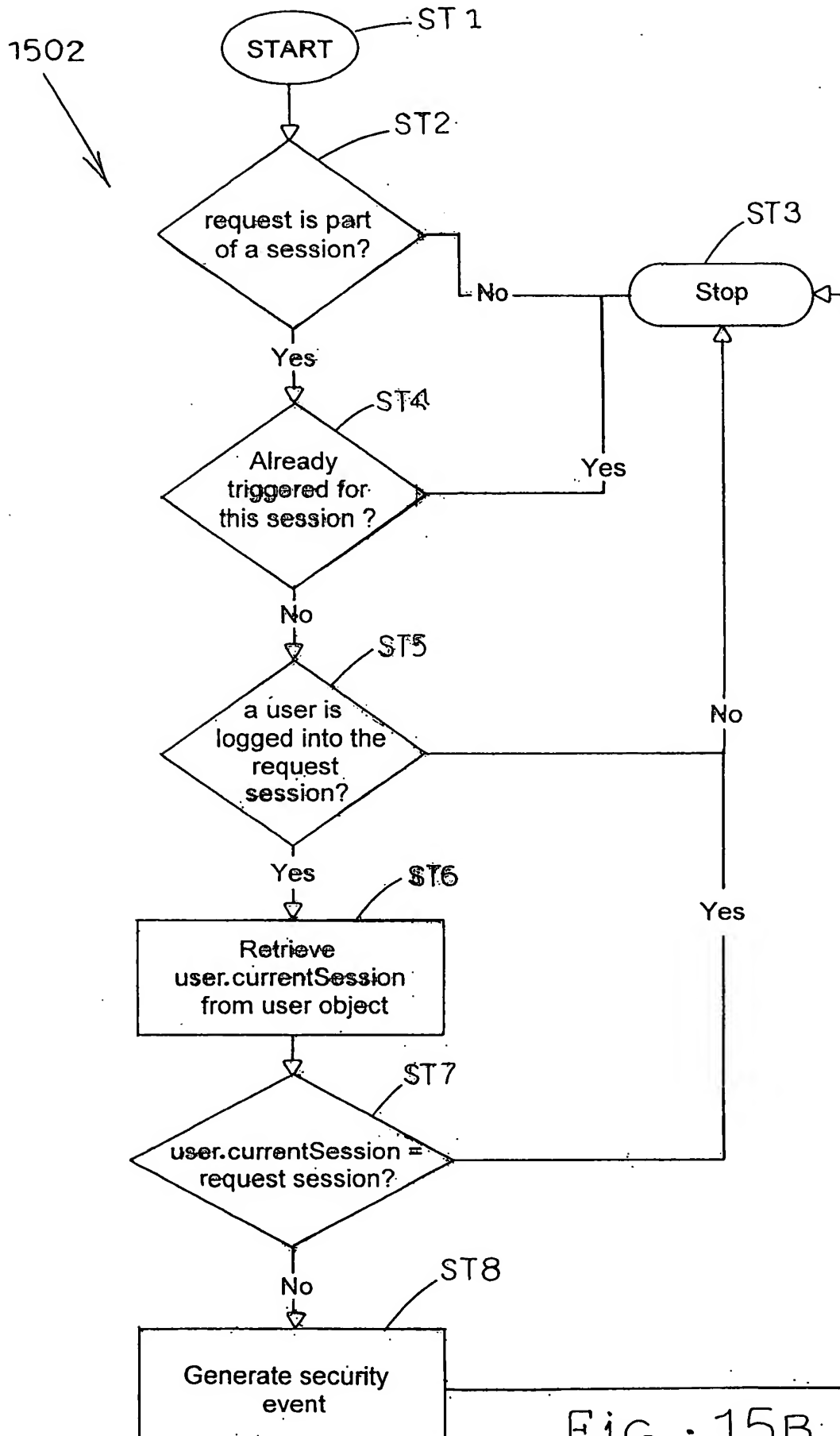


Fig. 15A



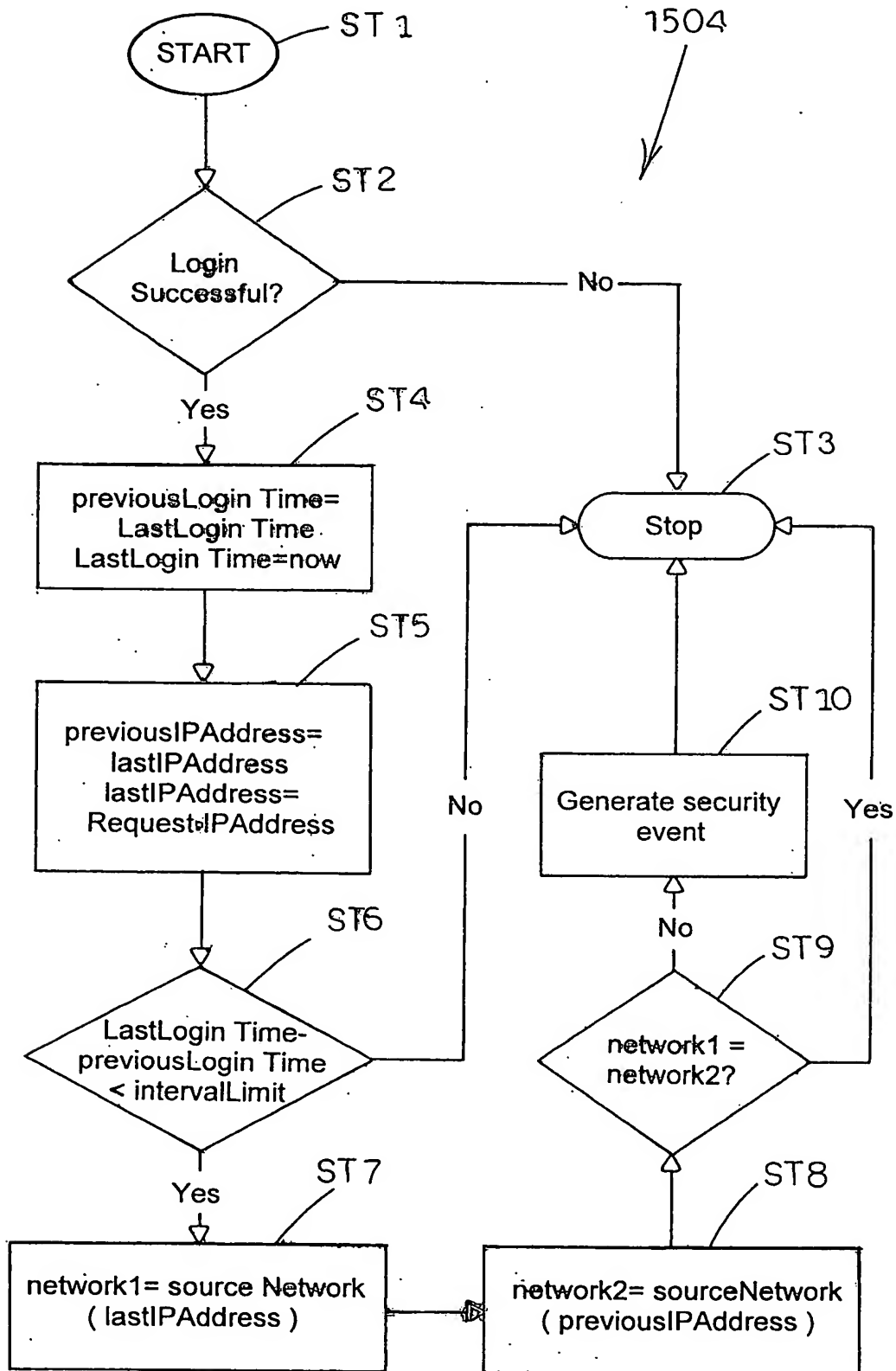


Fig. 15c

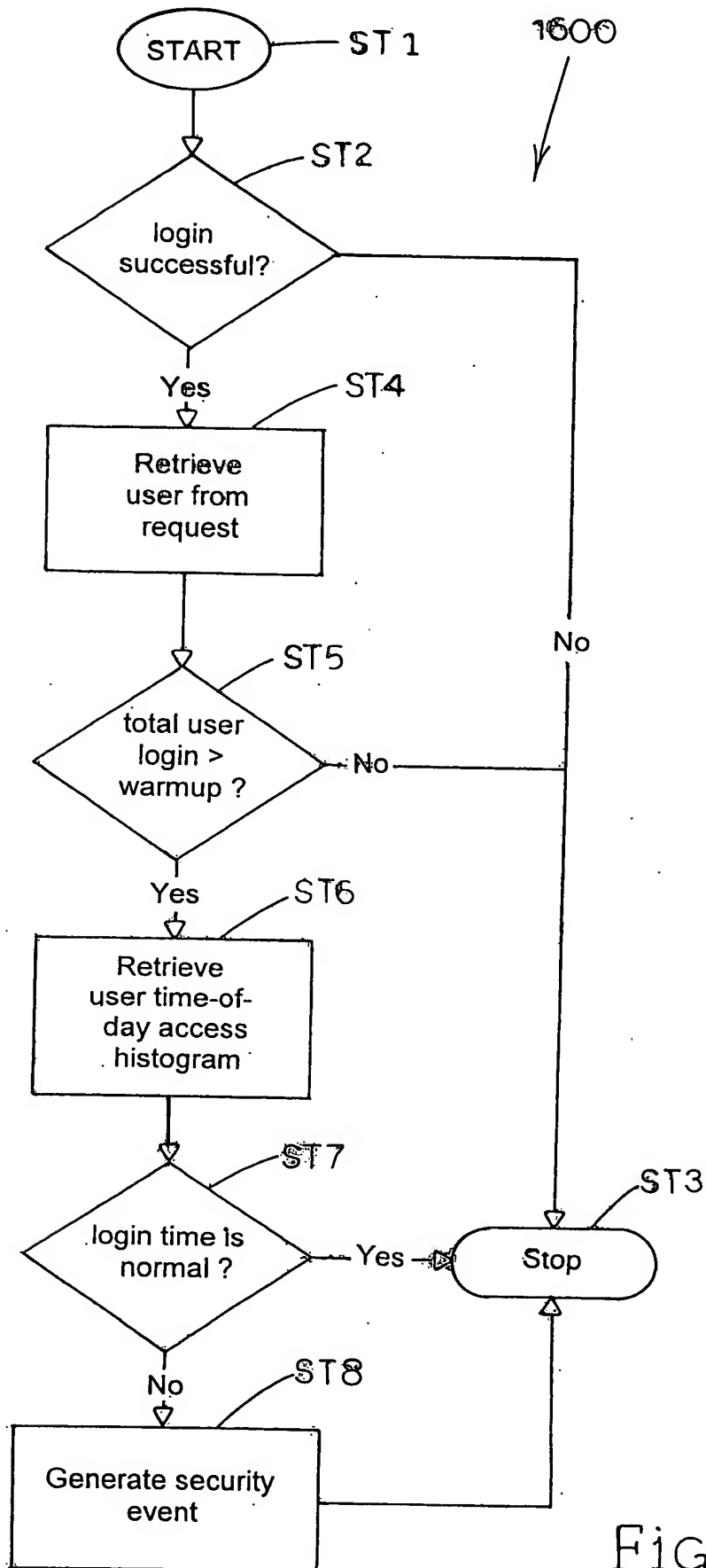


Fig. 16A

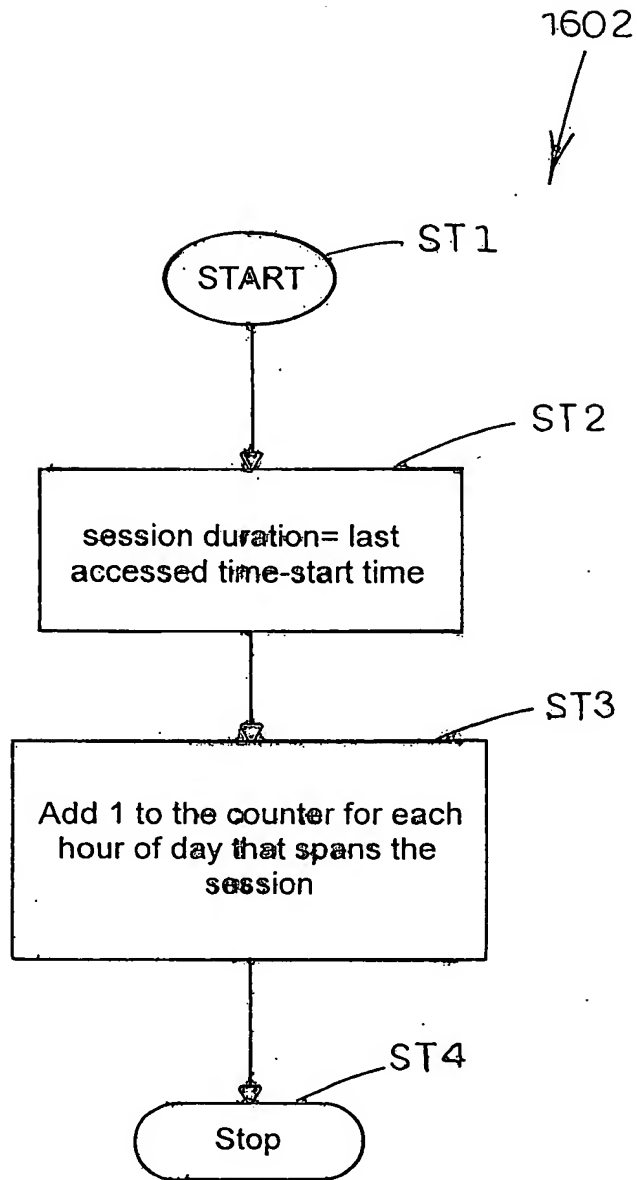


Fig. 16B

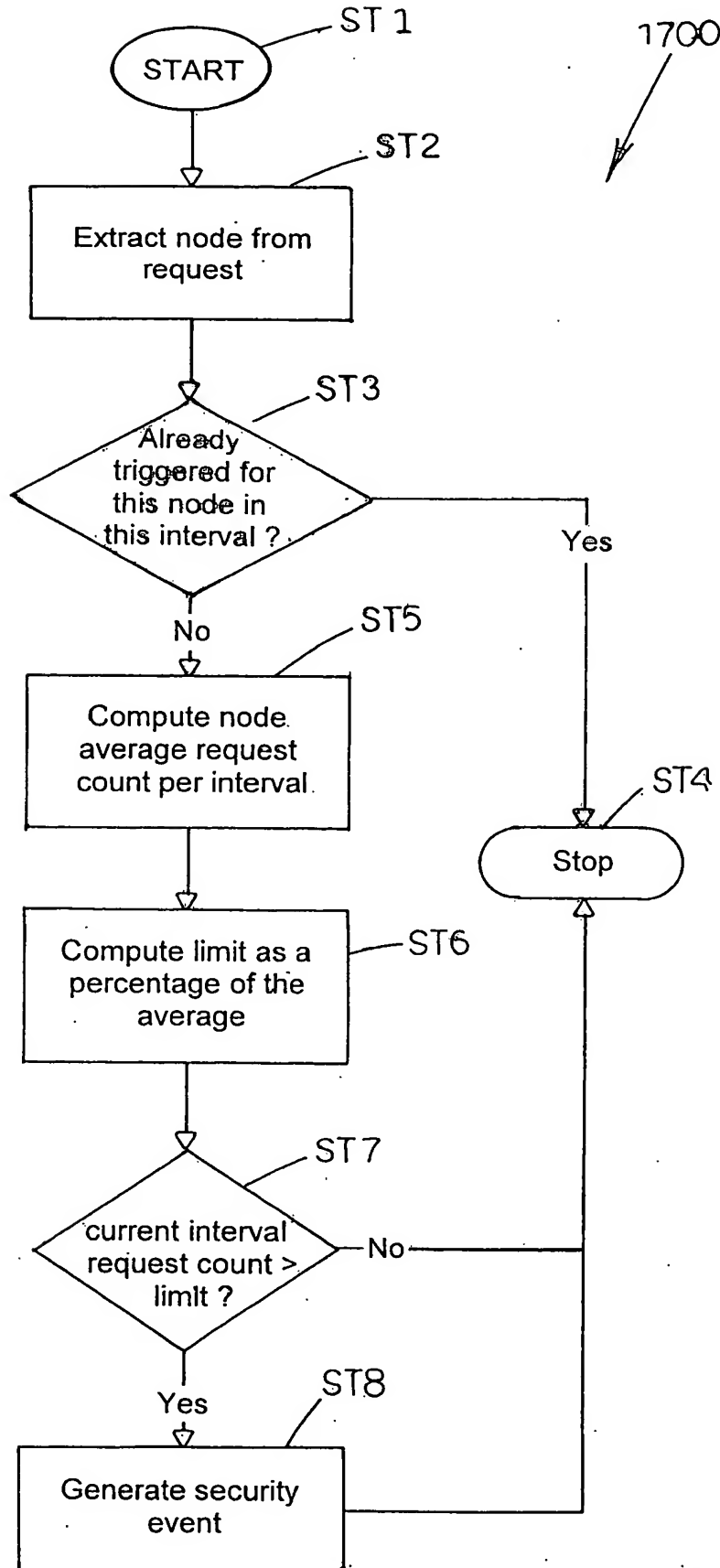


Fig. 17A



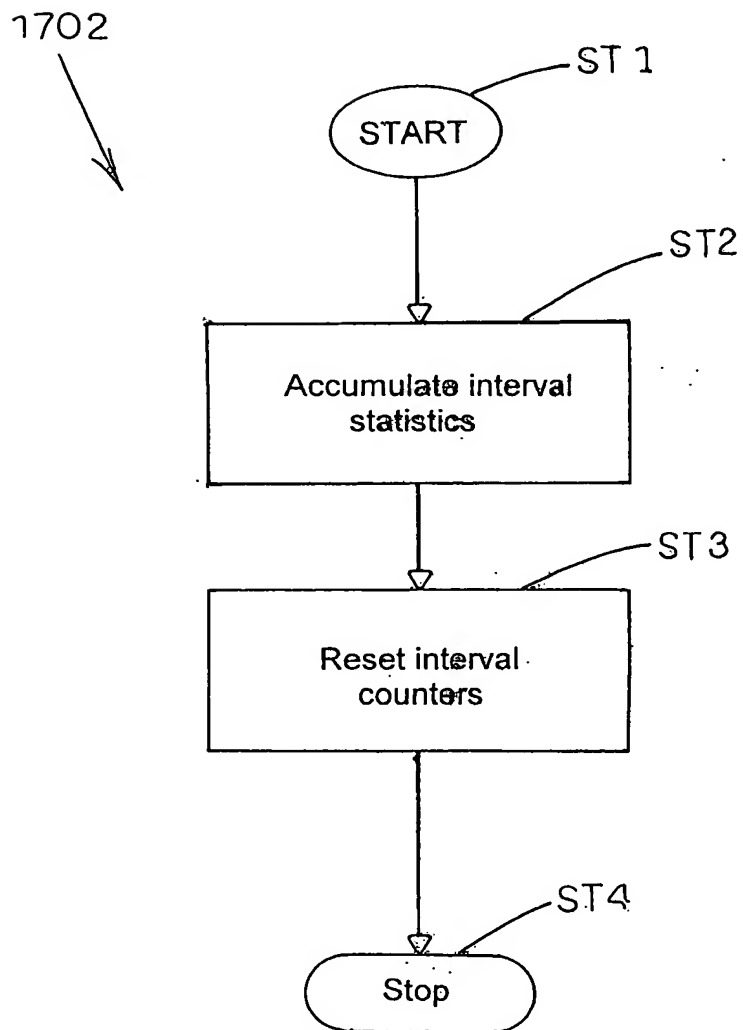


Fig. 17B

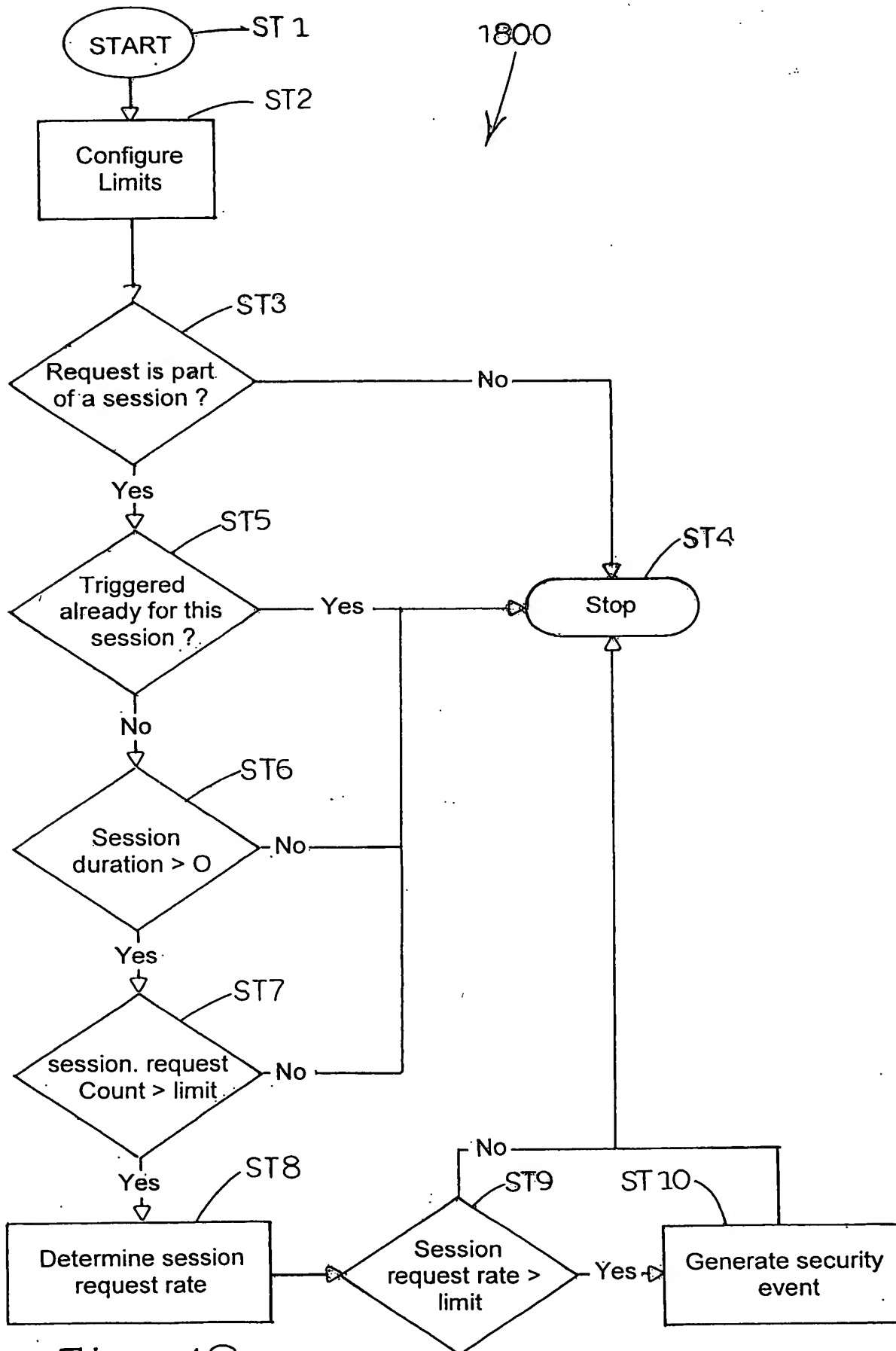


Fig. 18

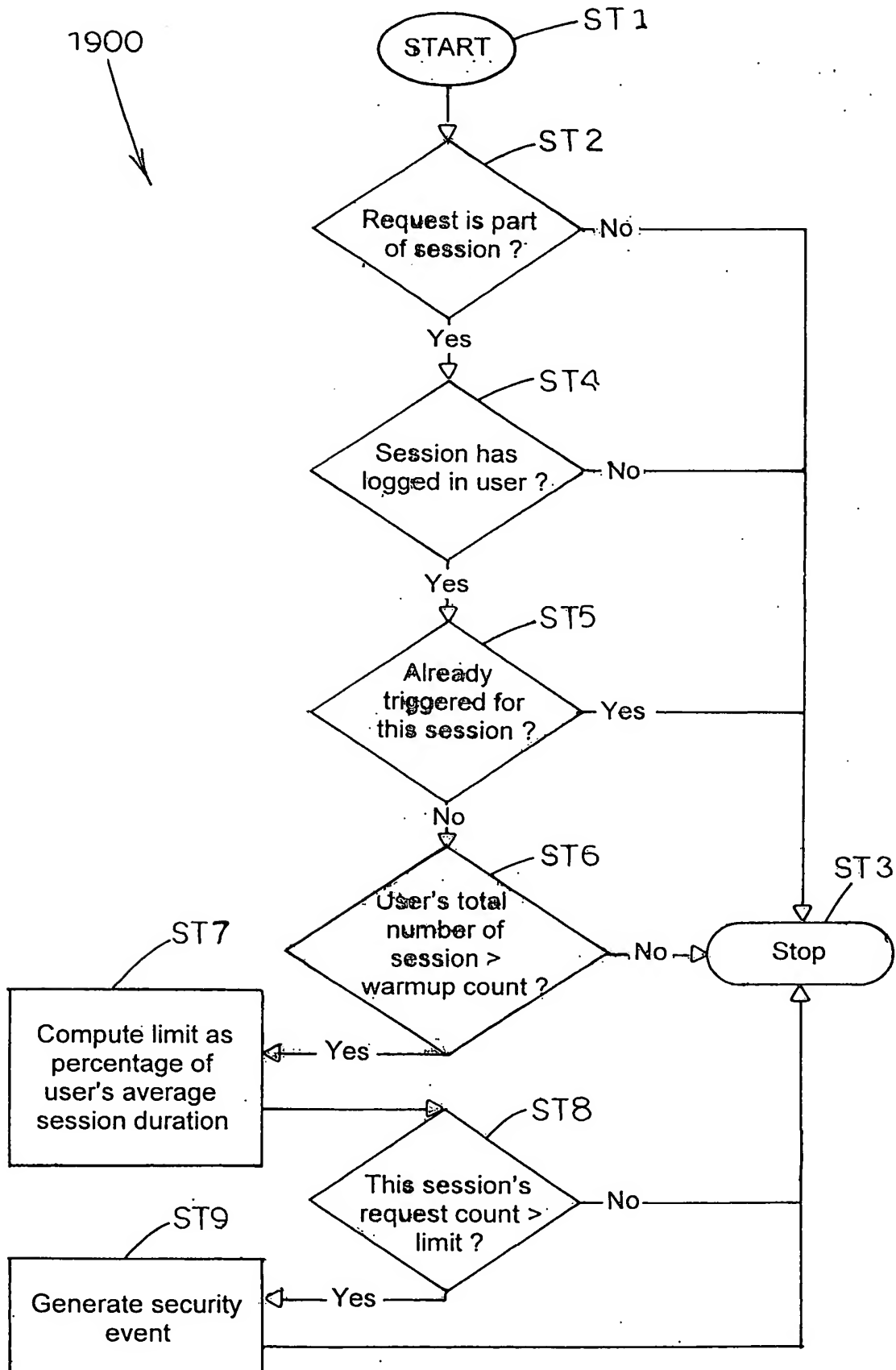


FIG. 19A

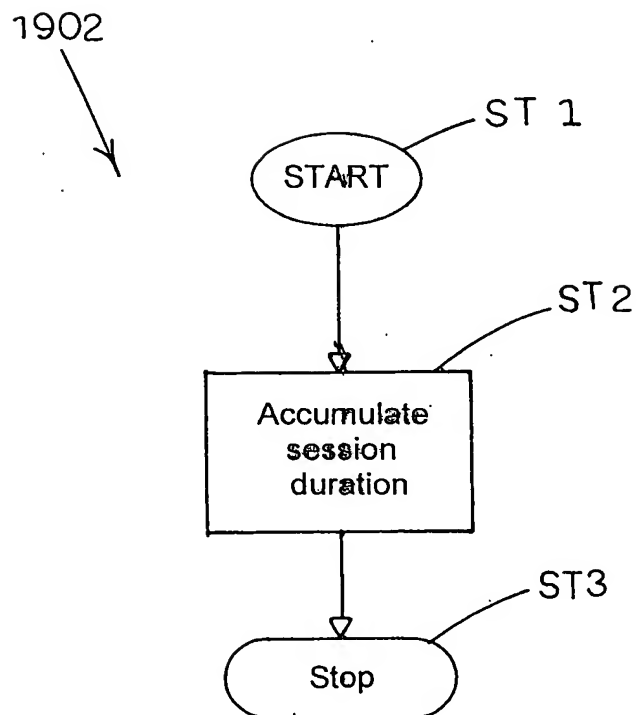


Fig. 19B

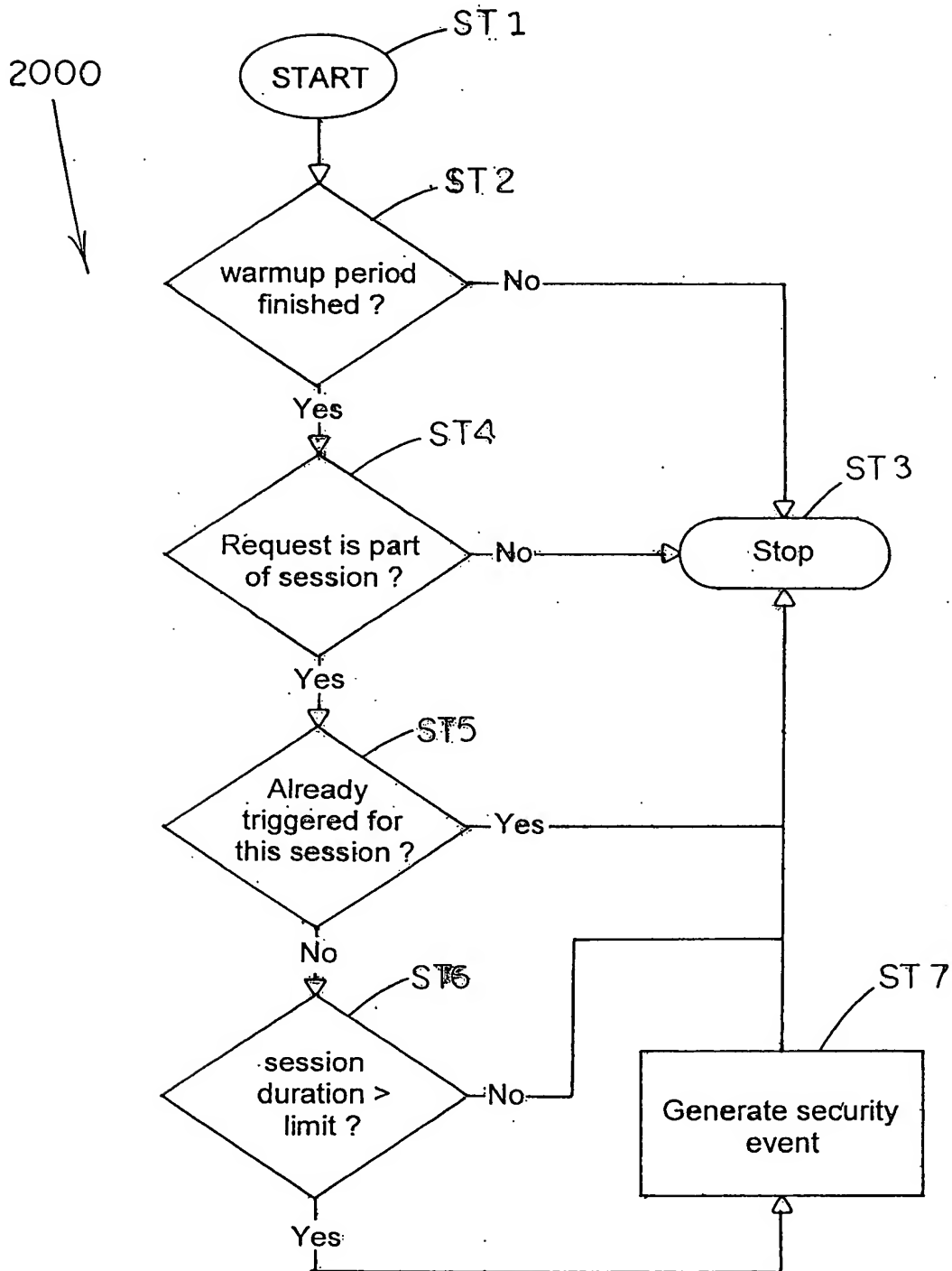


Fig. 20A

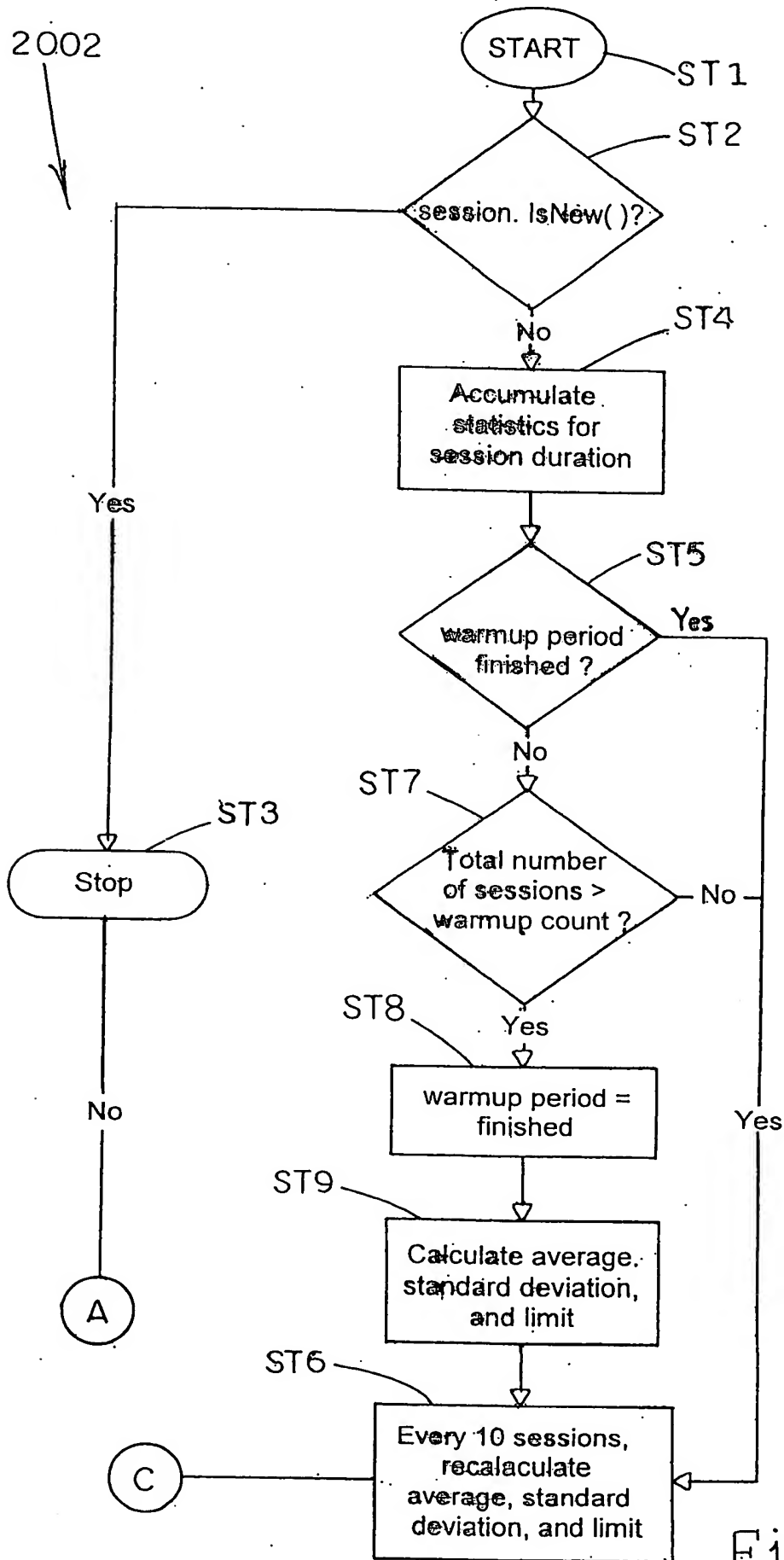


Fig. 20B

2004

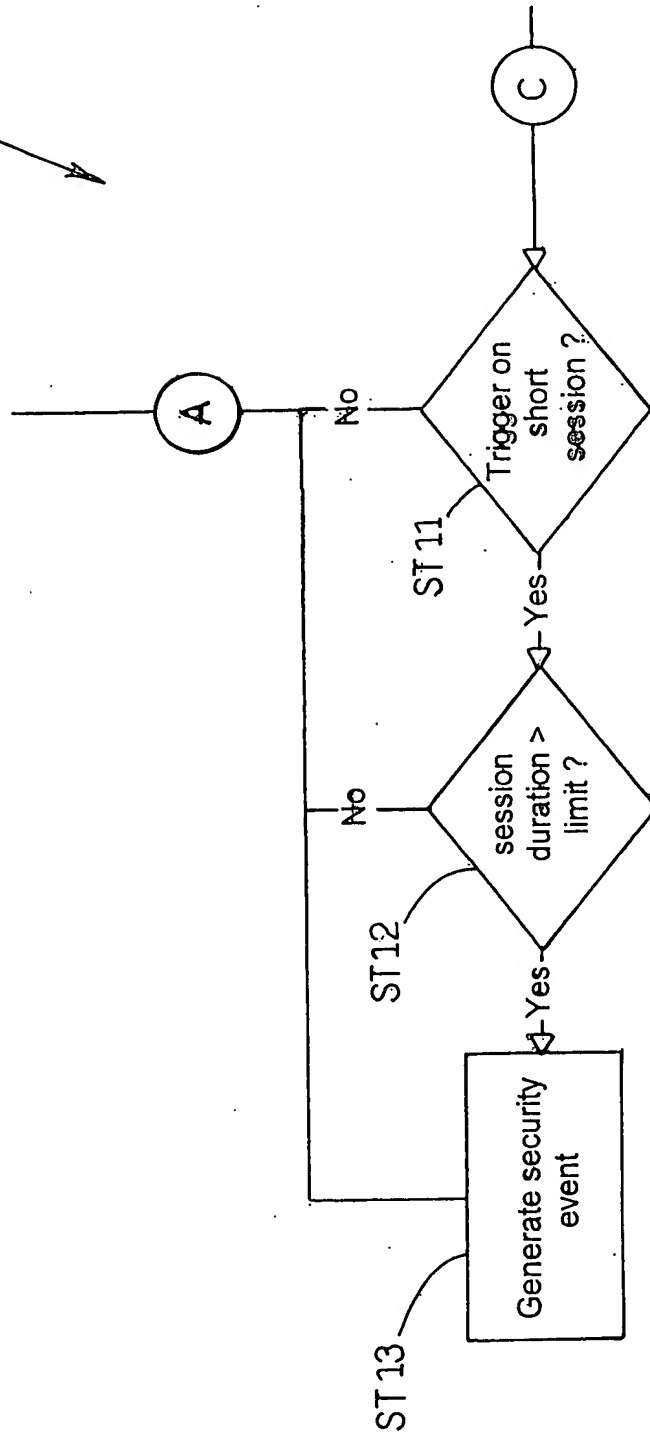


Fig. 20C

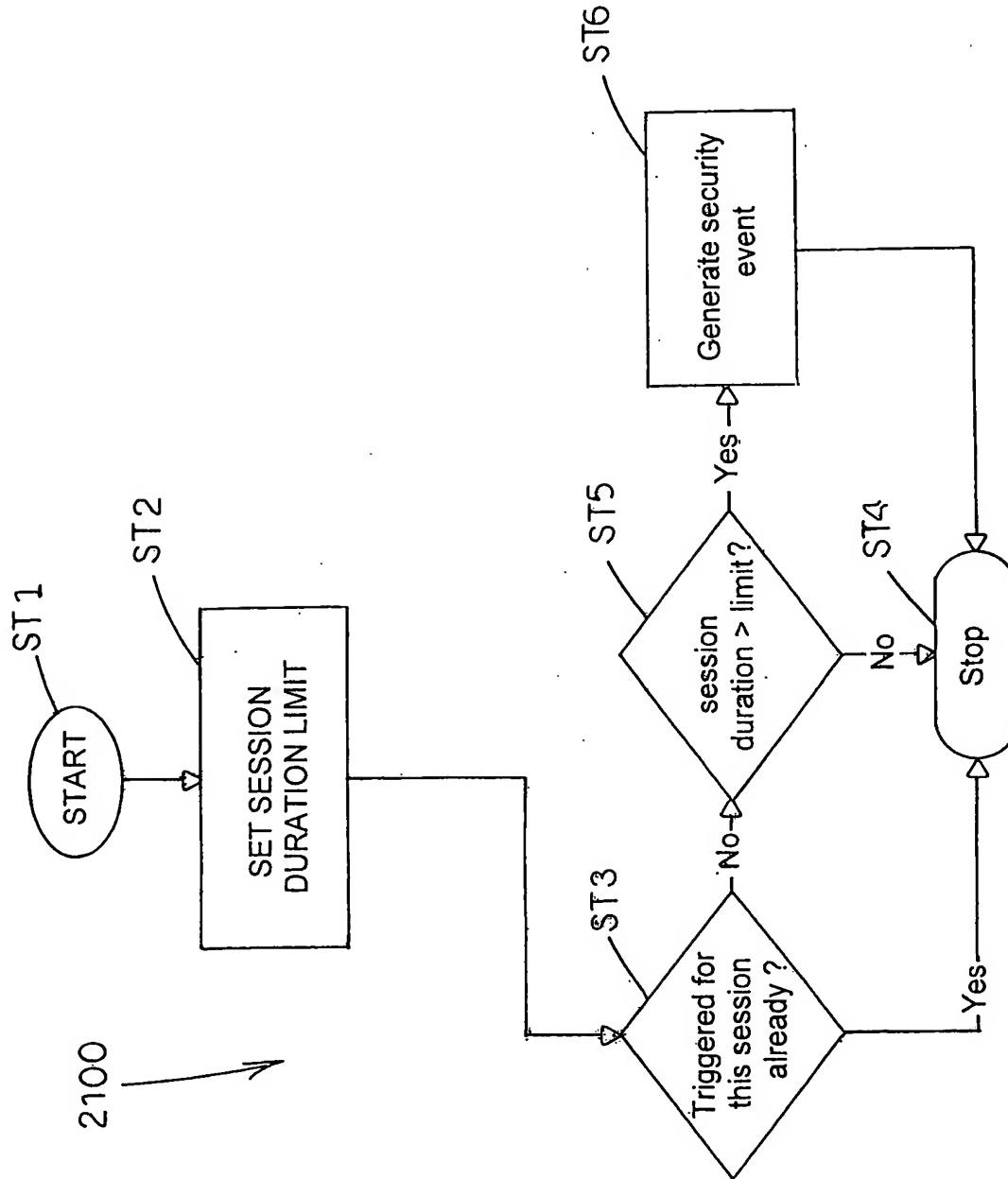


Fig. 21



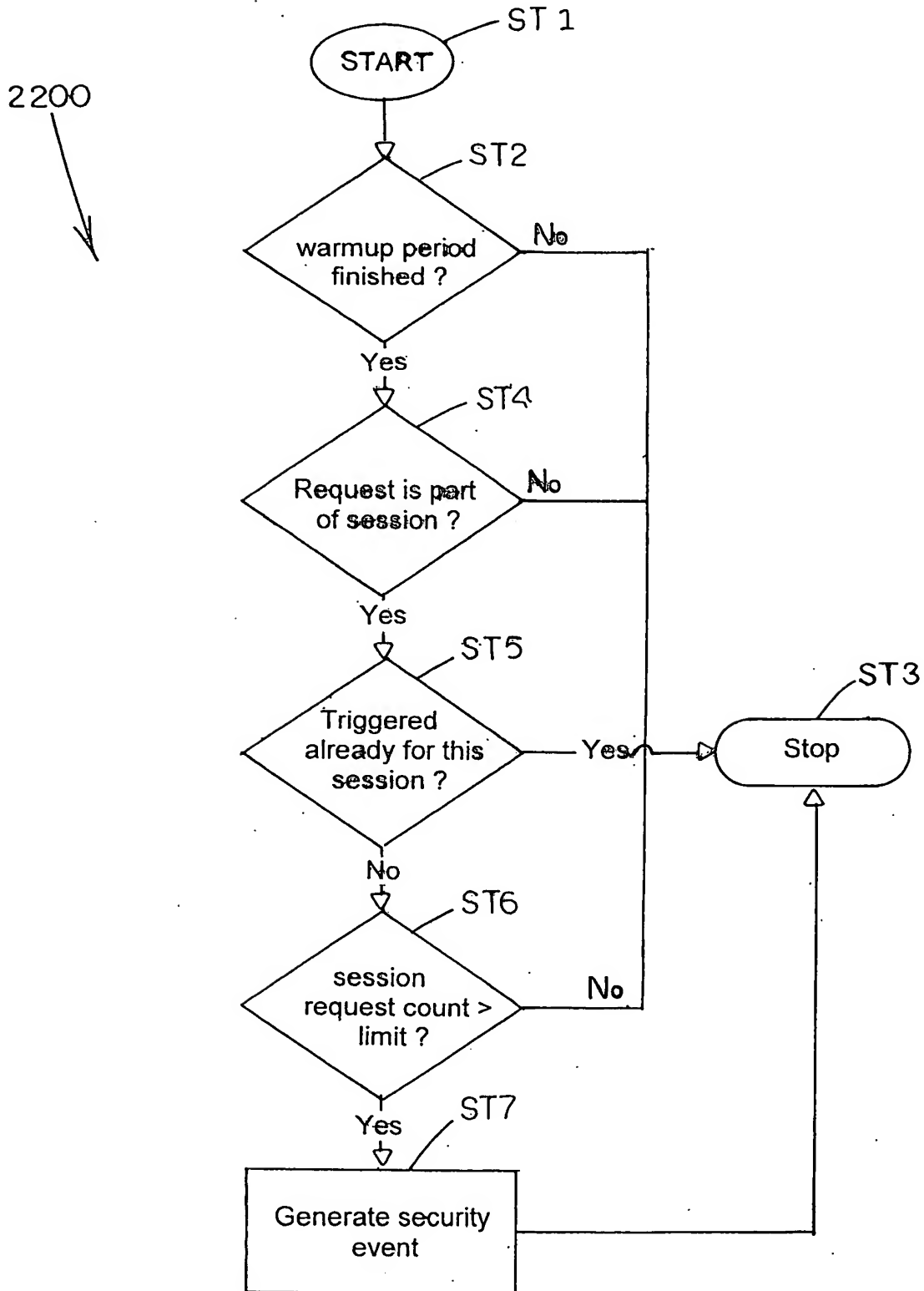


Fig. 22A

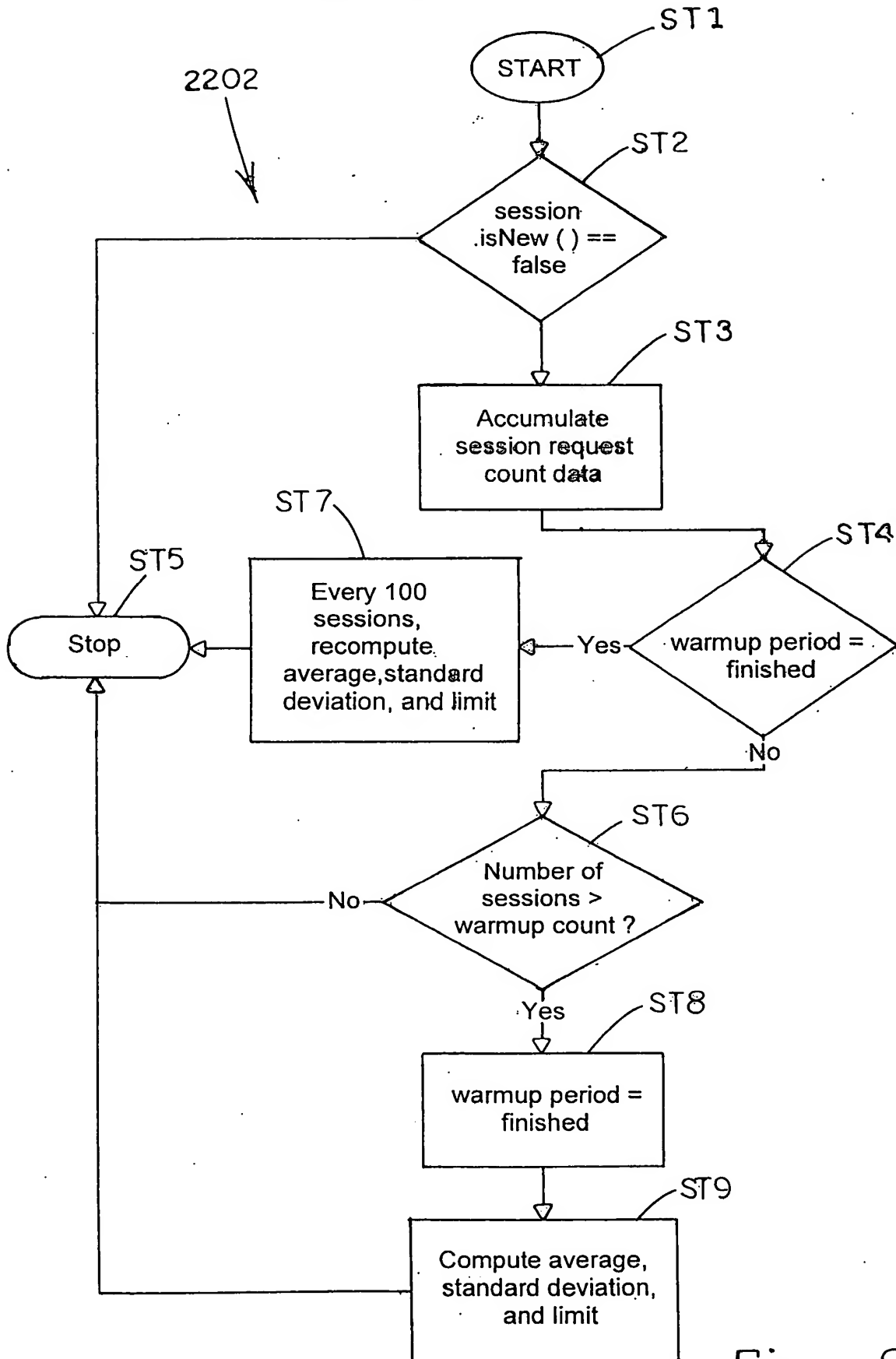
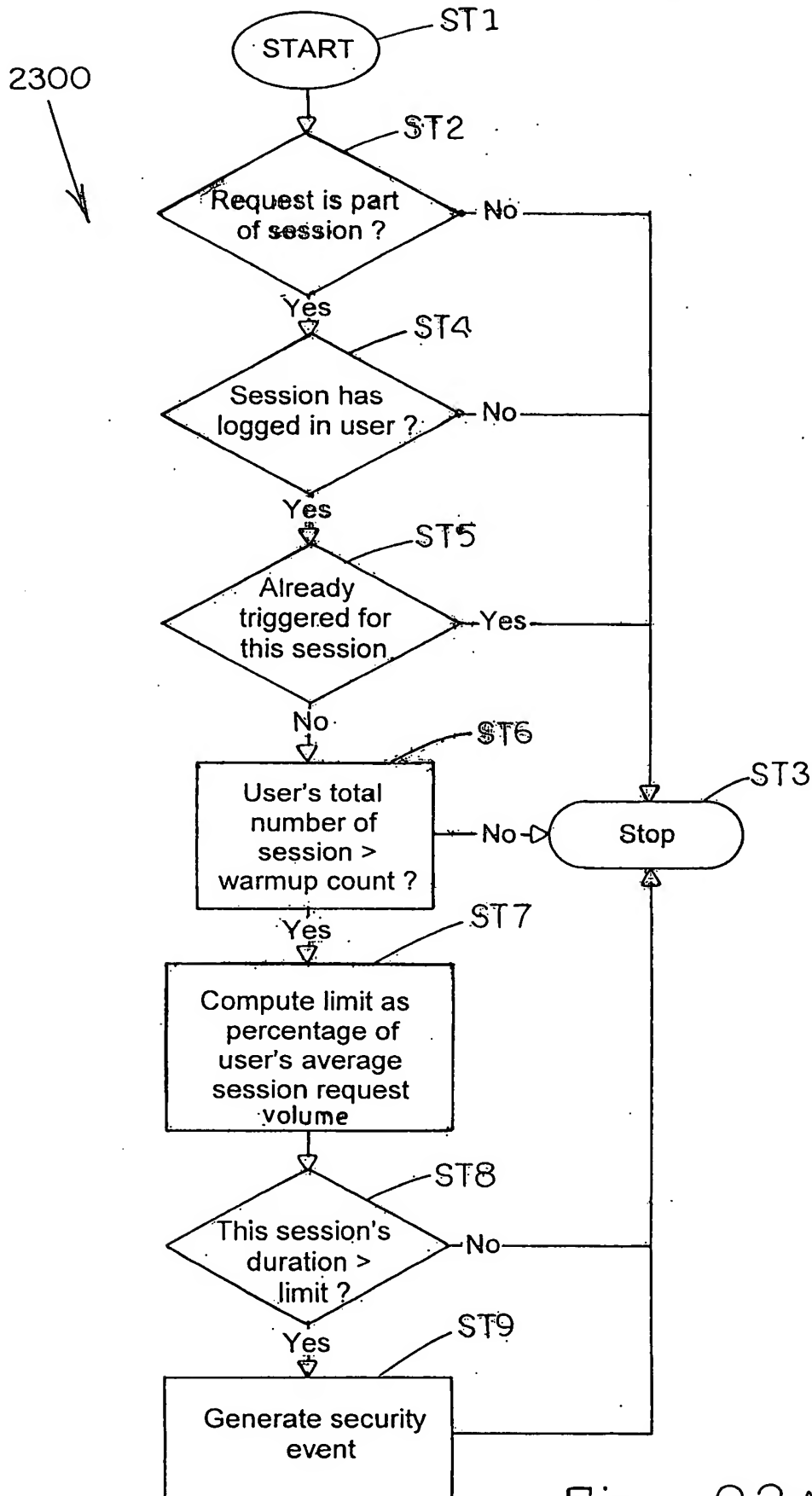


FIG. 22B



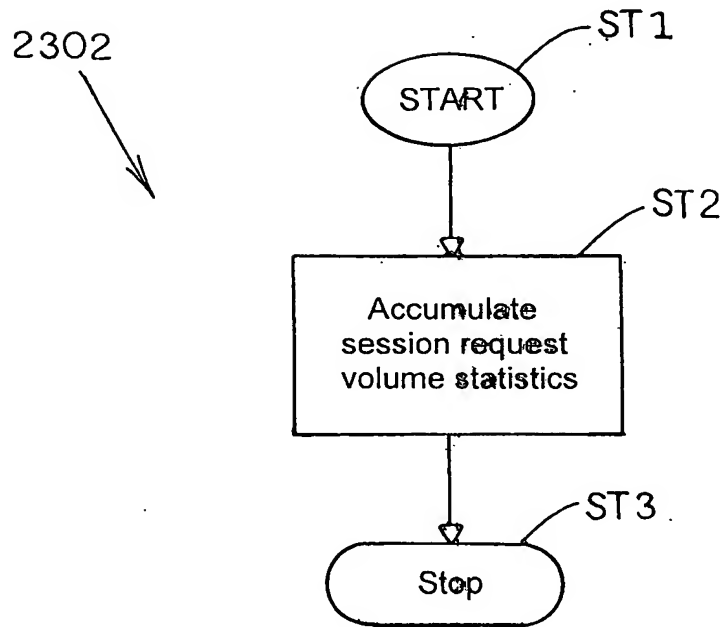


FIG. 23B

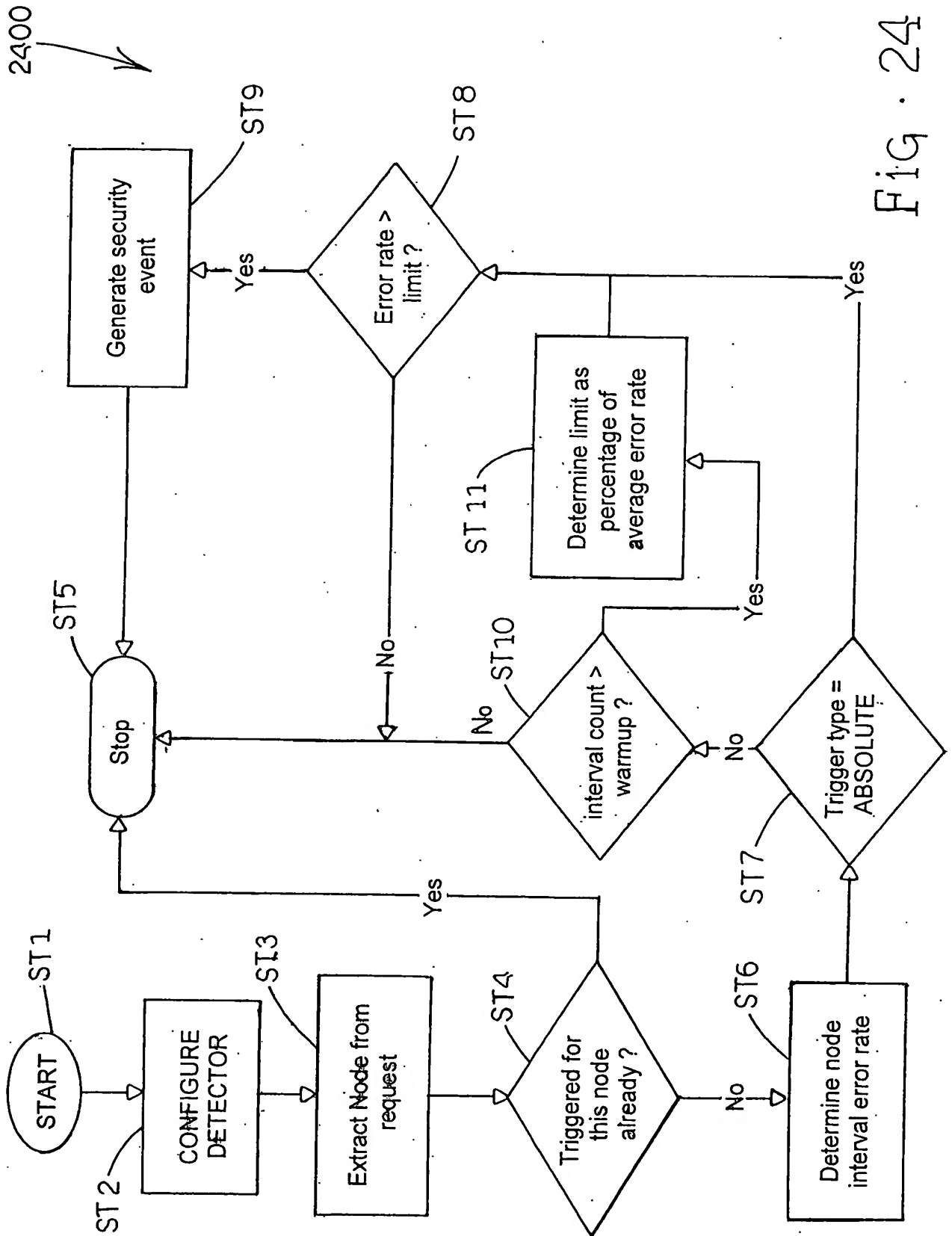


Fig. 24

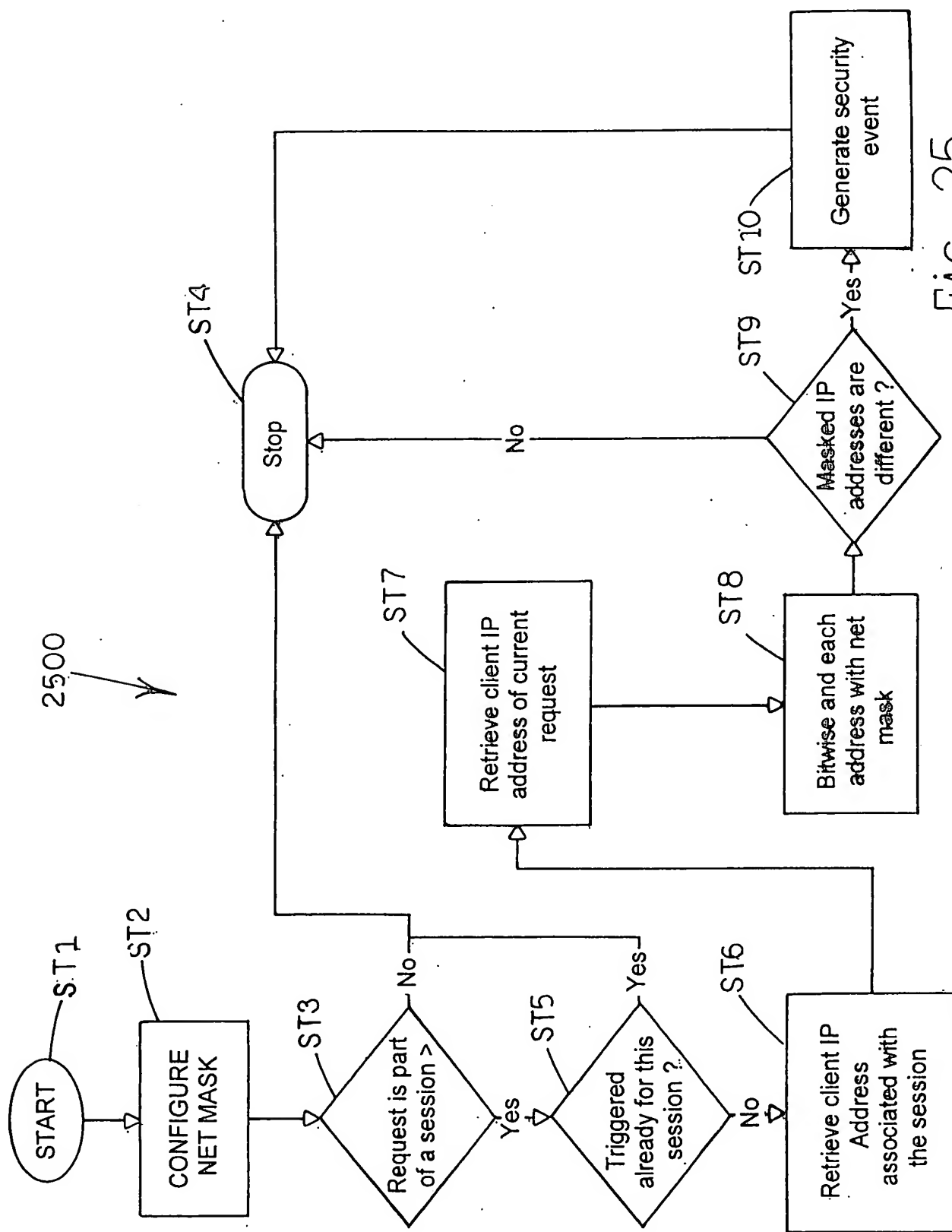


Fig. 25

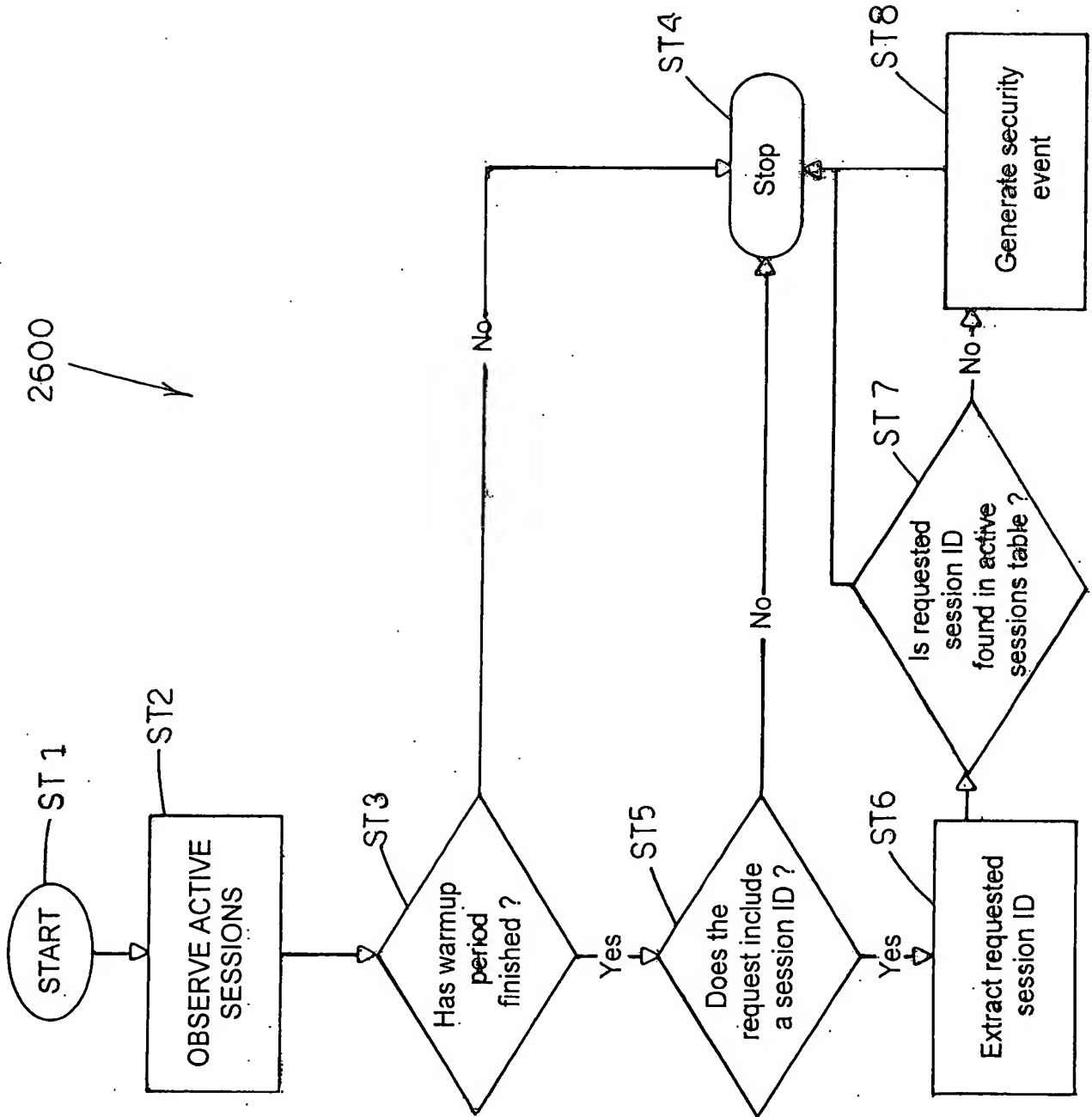


Fig. 26

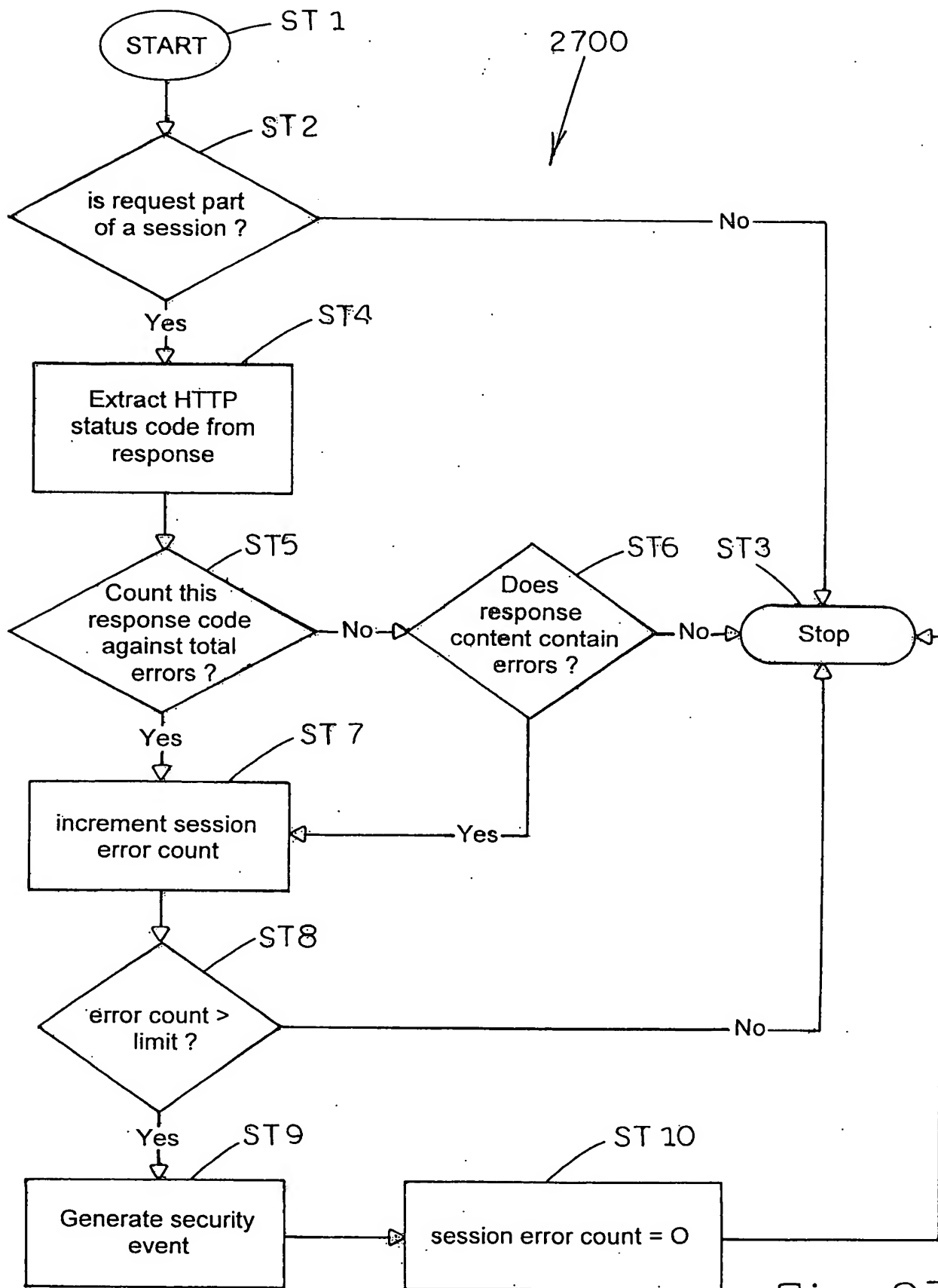
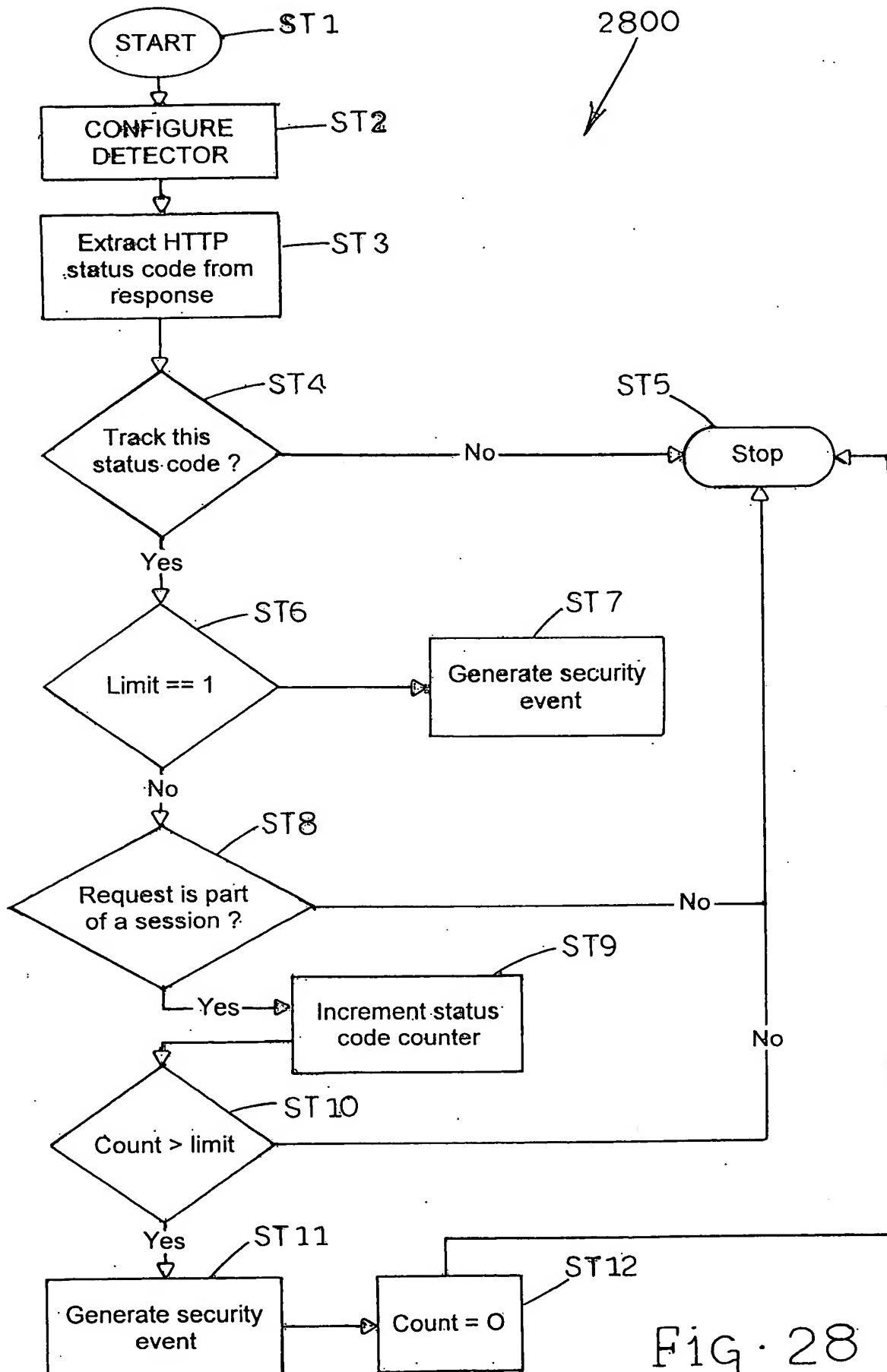


Fig. 27





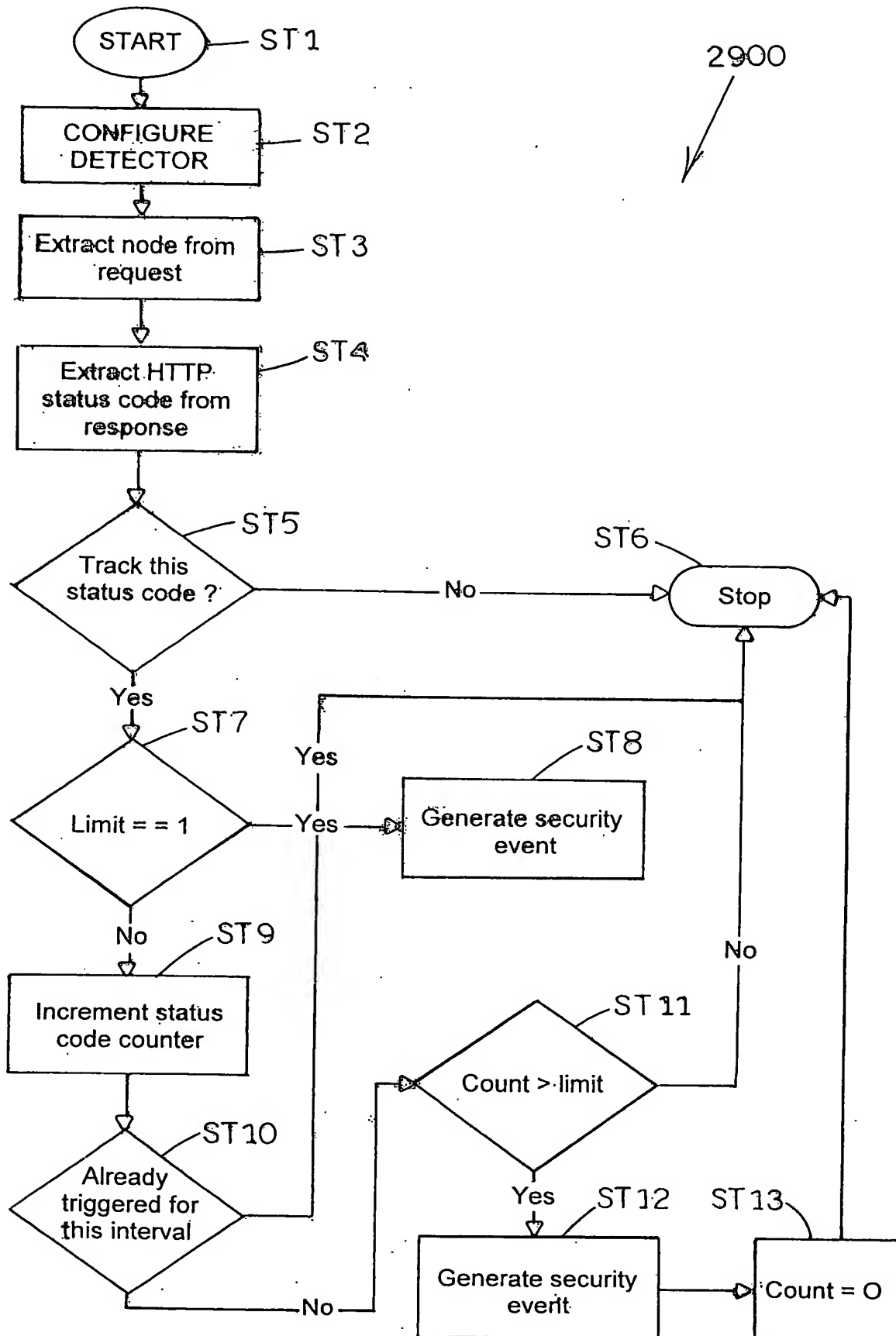


Fig. 29

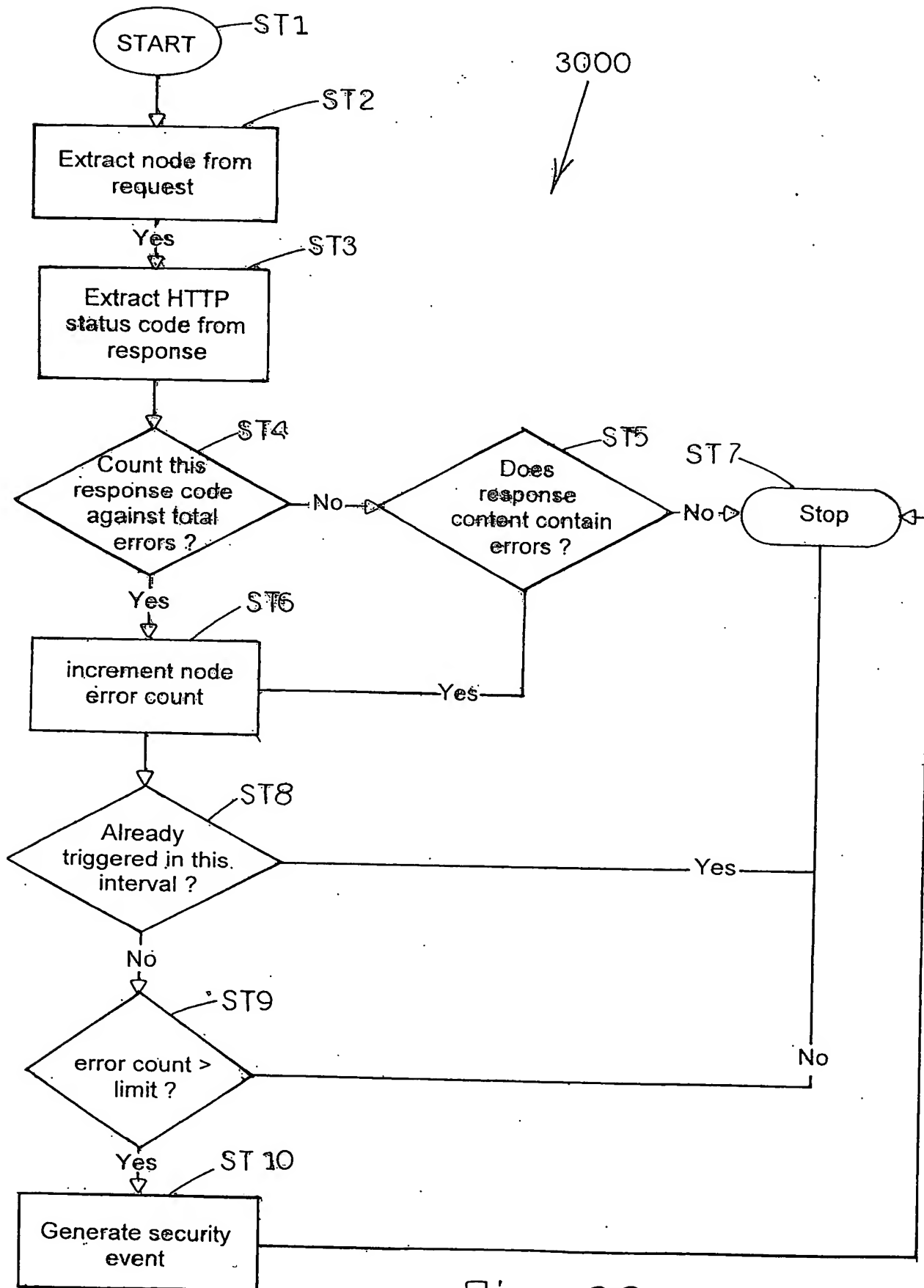


Fig. 30

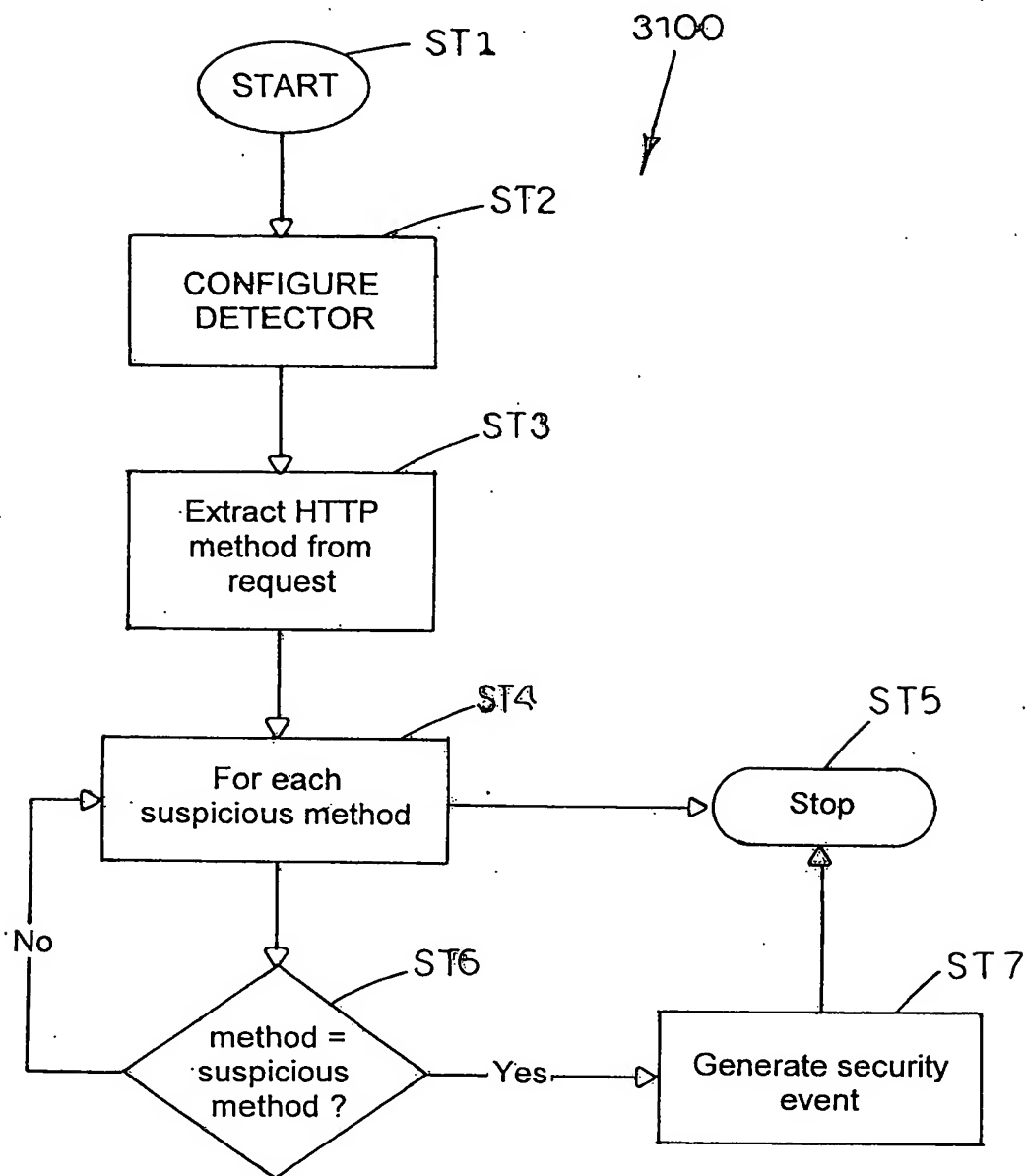


Fig. 31

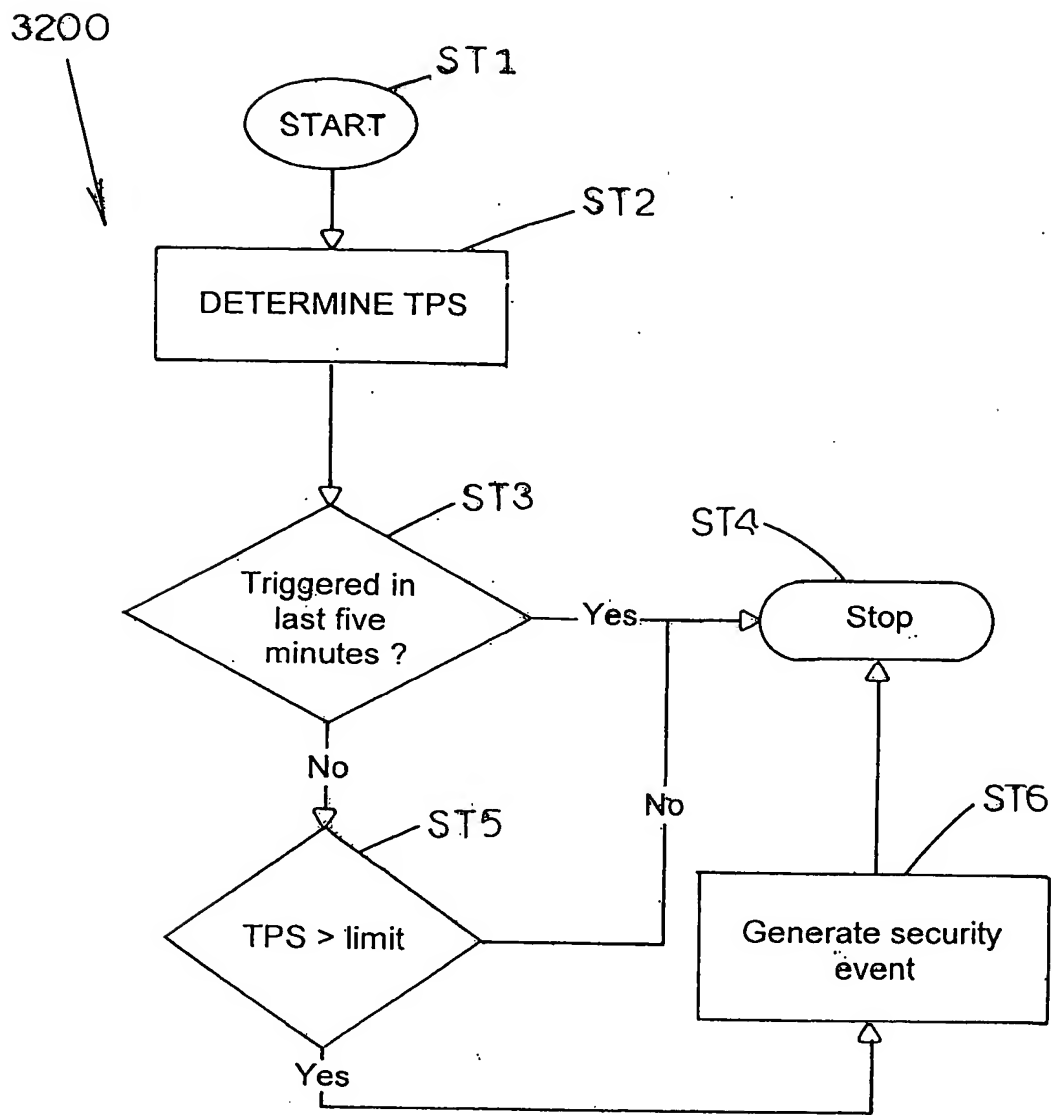


Fig. 32

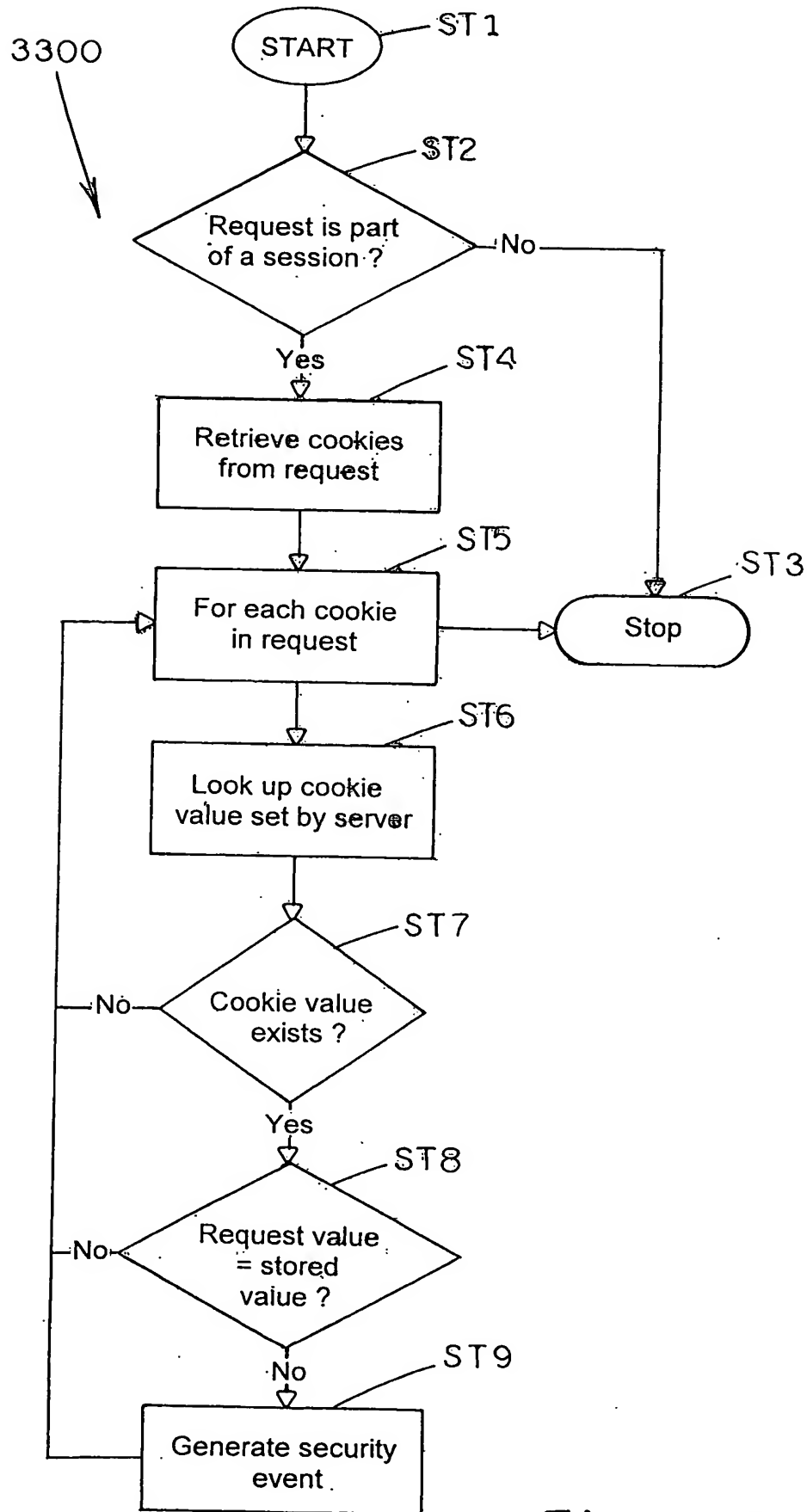


Fig. 33A

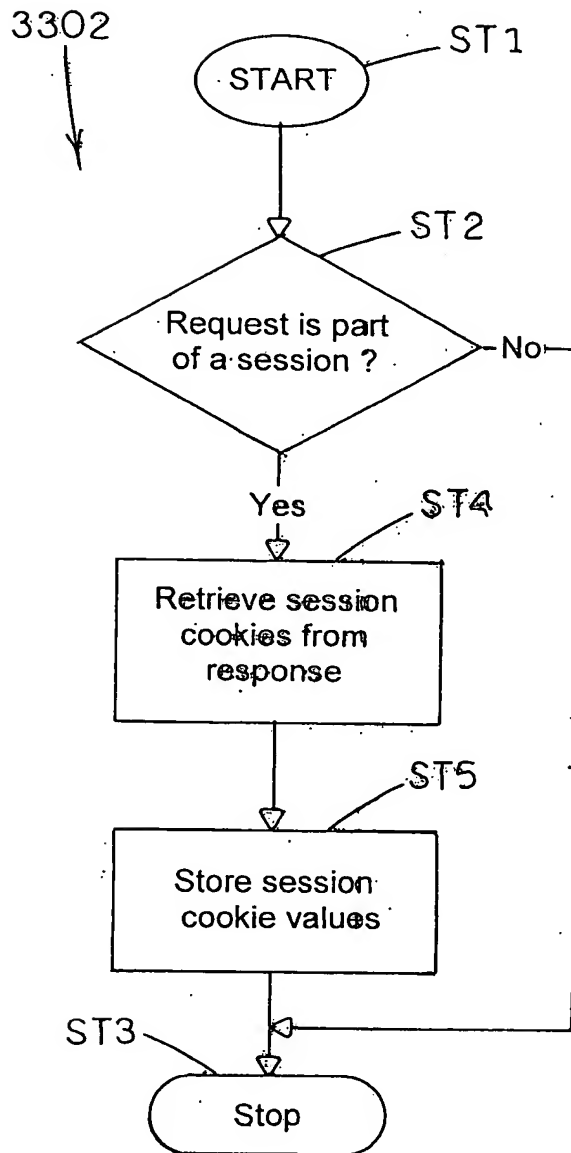


FIG. 33B

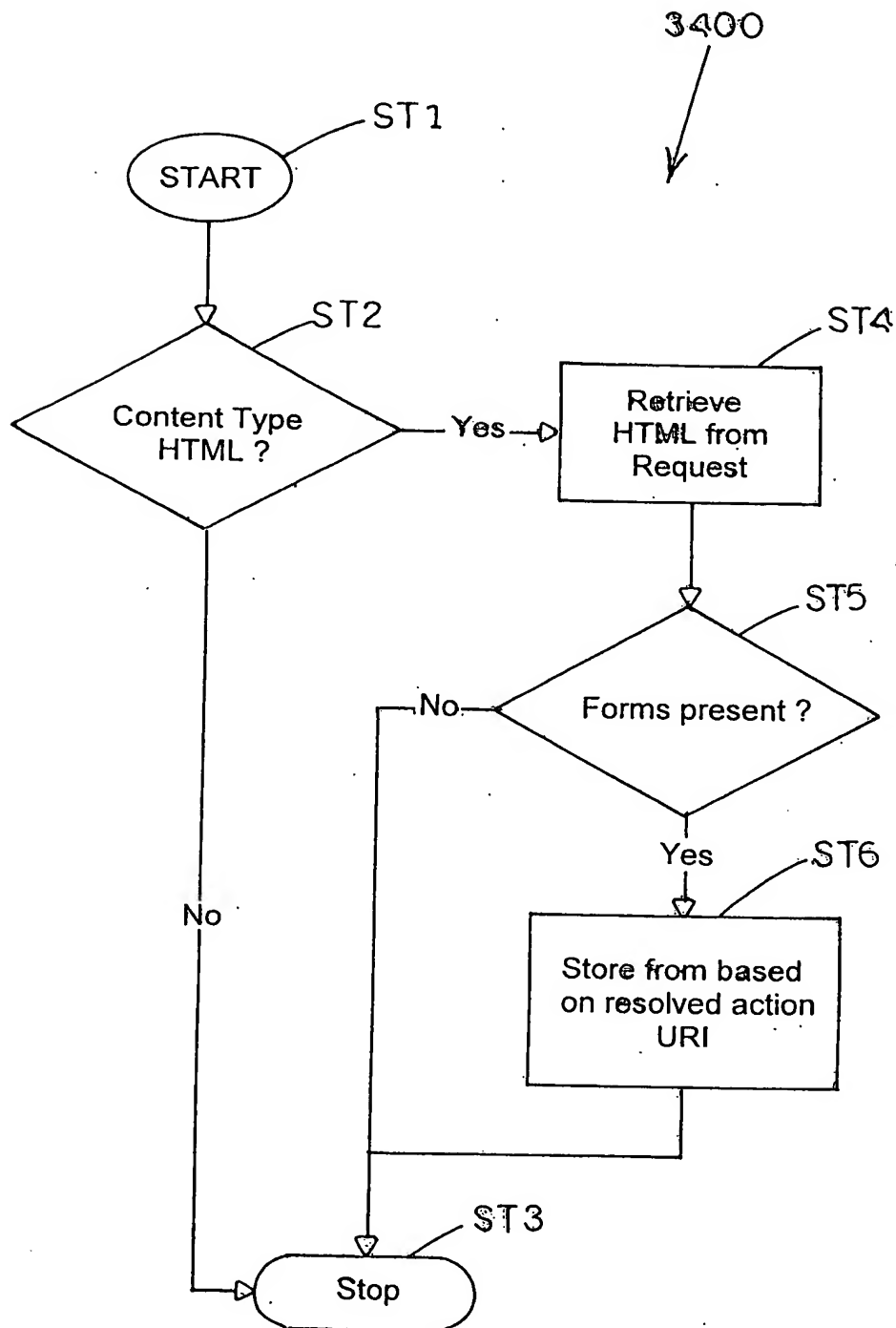


Fig. 34A



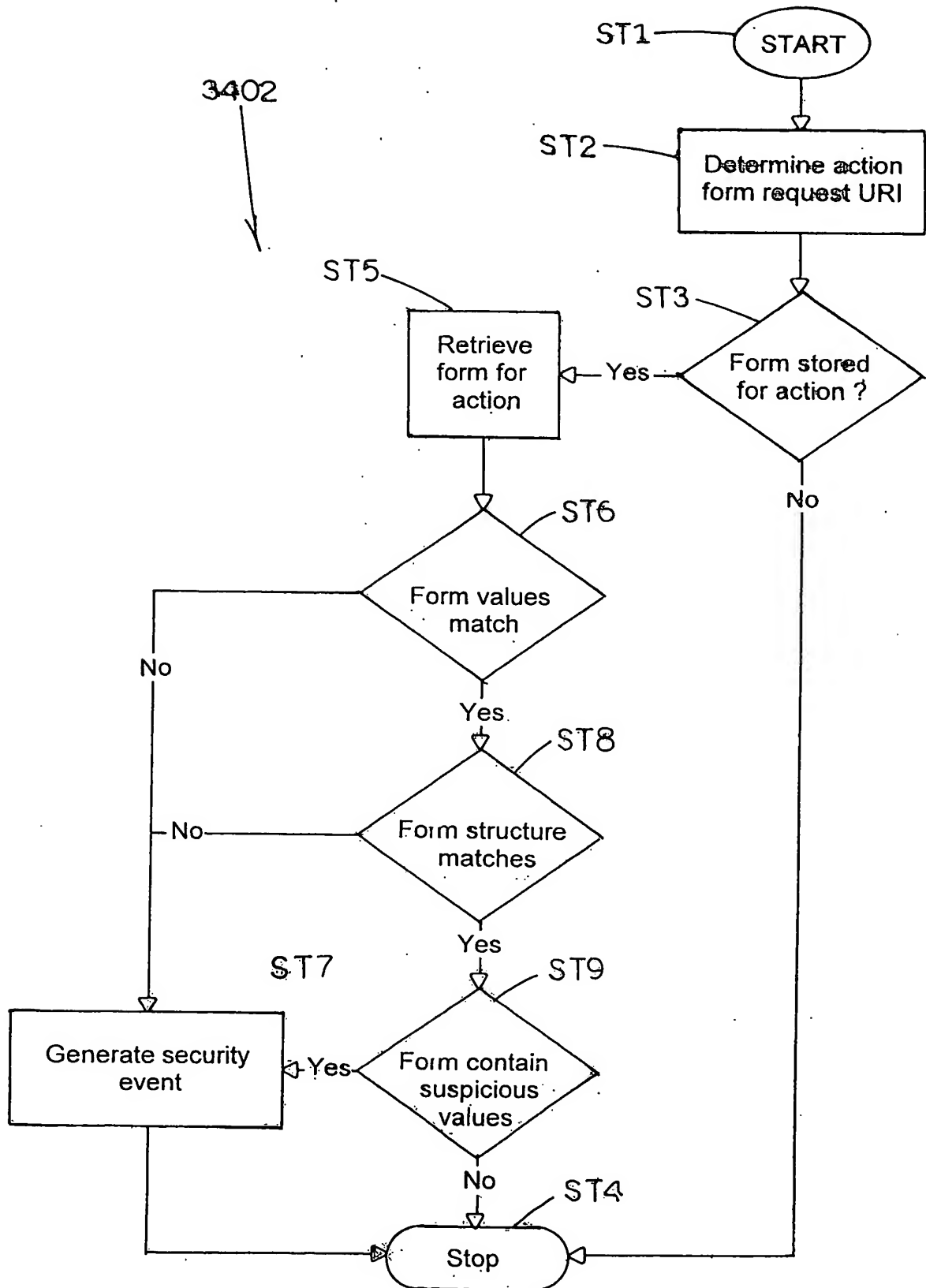


Fig. 34B

3500

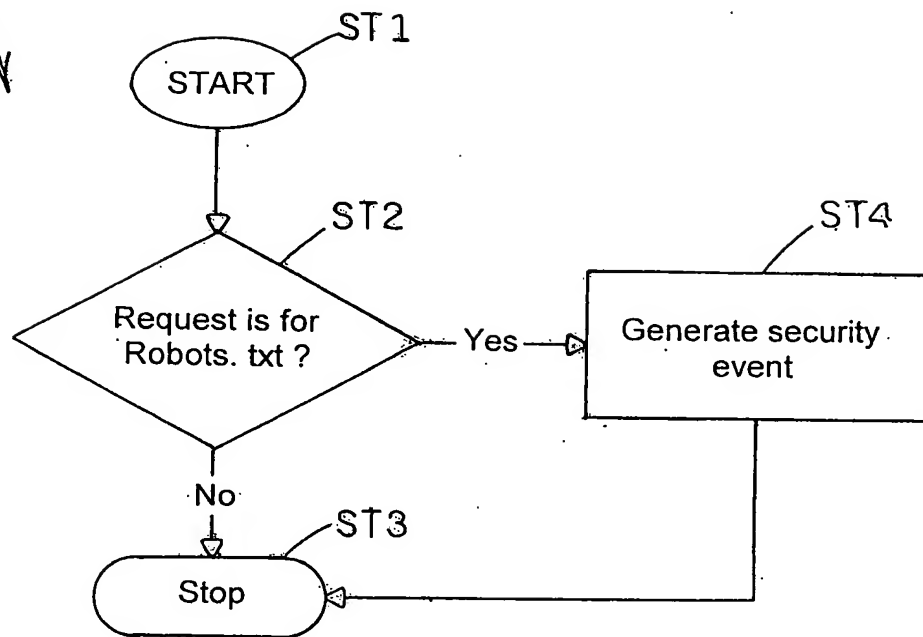


Fig. 35

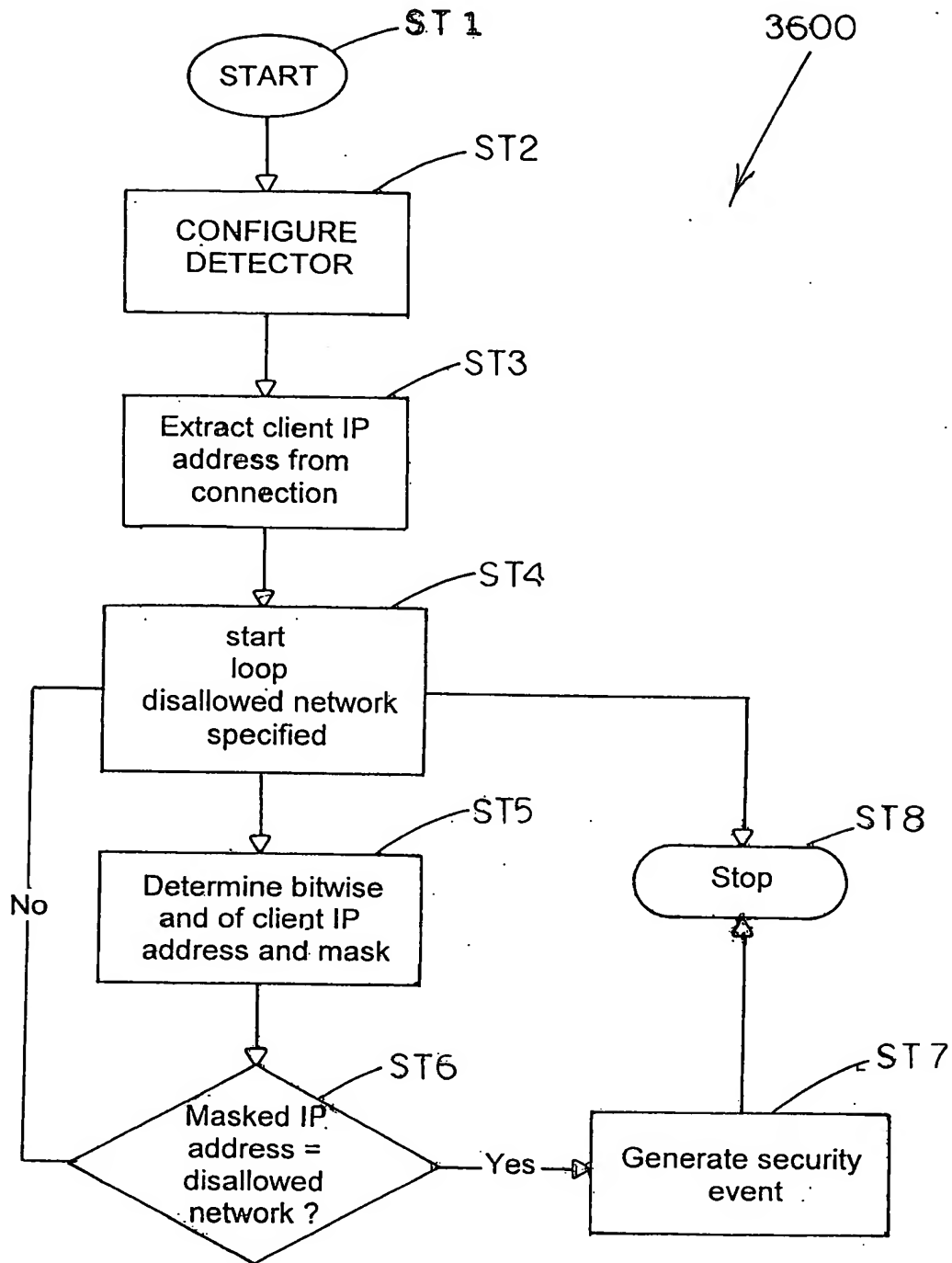


Fig. 36

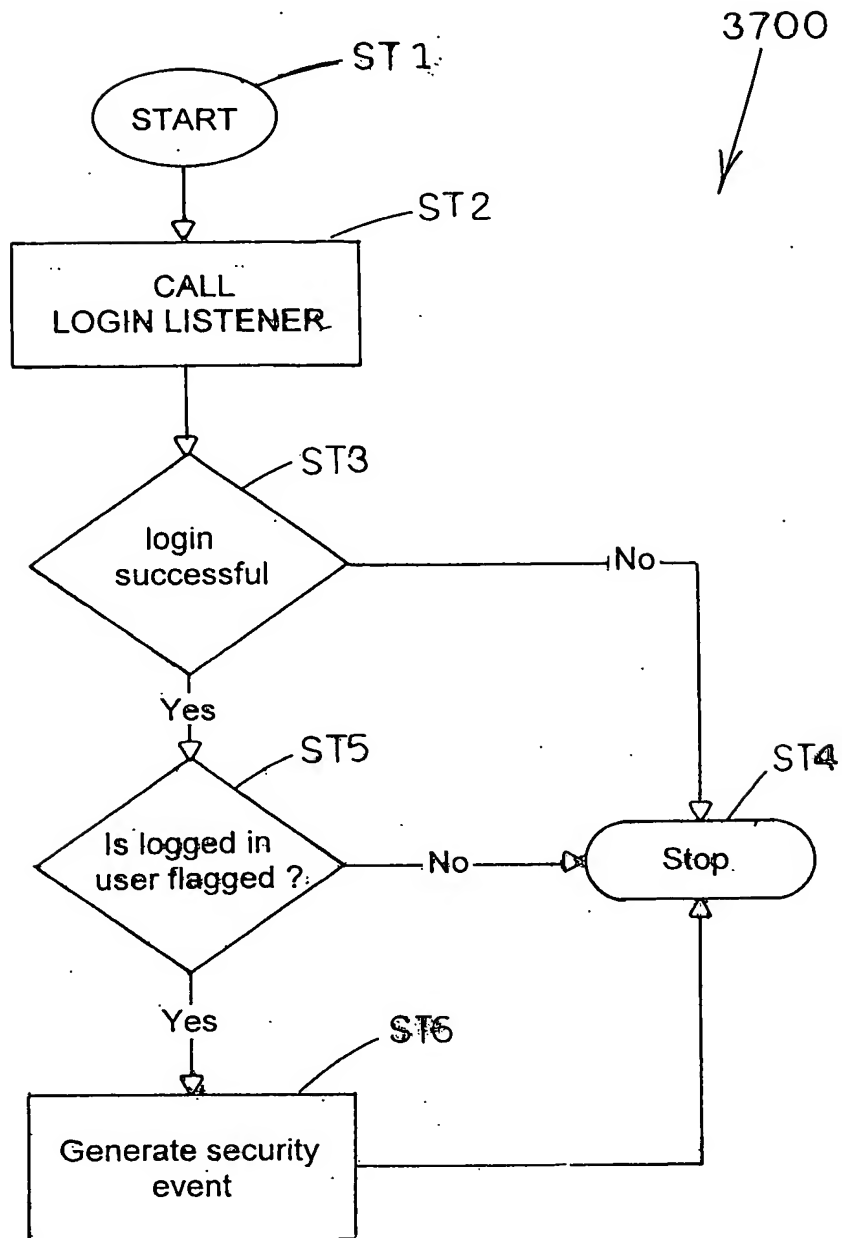


Fig. 37

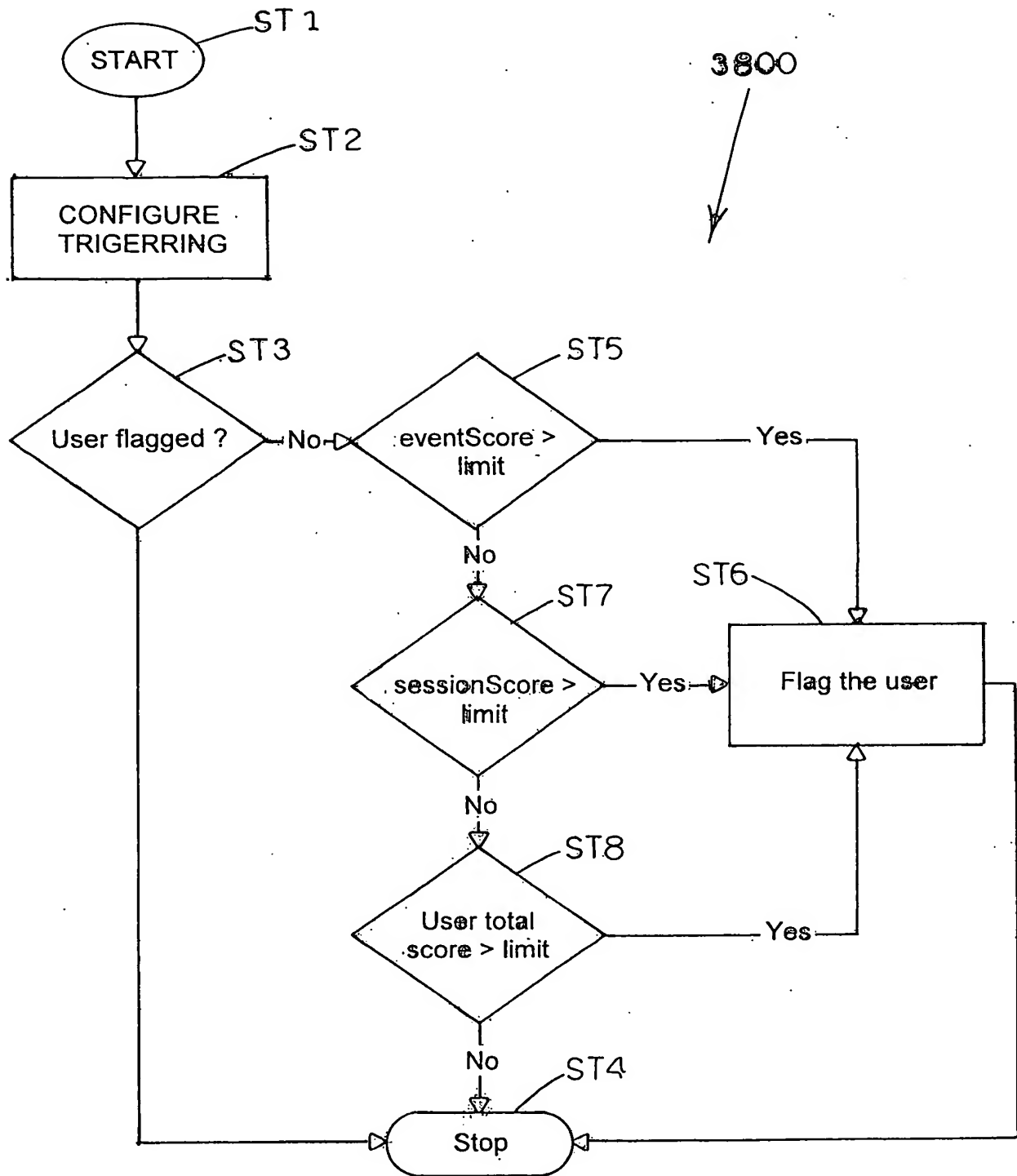
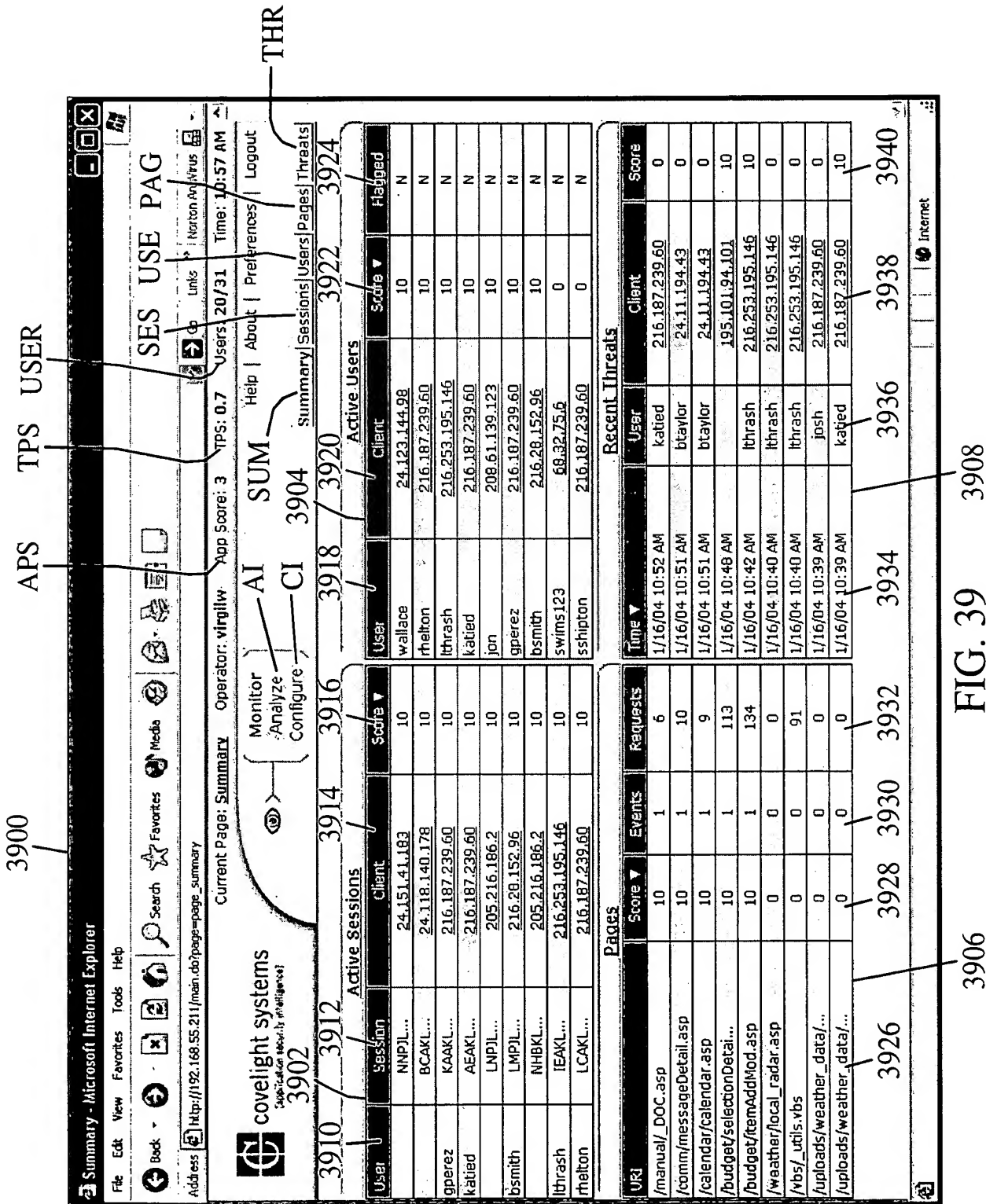


Fig. 38



4000

Microsoft Internet Explorer - Sessions

Address: http://192.168.55.211/main.do?page=page\_sessions

Current Page: Sessions Operator: virgilw App Score: 3 TPS: 0.7 Users: 20/31 Time: 10:58 AM

Navigation: Back, Forward, Home, Search, Favorites, Media, Links, Help, About, Preferences, Logout

Monitor Analyze Configure

covelight systems (application secure by Intelligize)

Summary Sessions Users Pages Threats

User	Session ID	Threat score	Start time	Requests	Client	Server
Hank.Cyndy	MCBKLCADGOMEPMBJD...	100	1/15/04 8:35 PM	11	205.188.208.168	192.168.2.19
Hank.Cyndy	MCBKLCADGOMEPMBJD...	100	1/16/04 2:13 AM	11	205.188.208.168	192.168.2.19
Hank.Cyndy	MCBKLCADGOMEPMBJD...	100	1/16/04 7:52 AM	11	205.188.208.168	192.168.2.19
?	LOAKLCADHFFMCOCBO...	90	1/16/04 7:19 AM	50	68.118.56.35	192.168.2.19
?	LOAKLCADHFFMCOCBO...	80	1/16/04 1:40 AM	50	68.118.56.35	192.168.2.19
?	LOAKLCADHFFMCOCBO...	80	1/15/04 8:01 PM	50	68.118.56.35	192.168.2.19
kabed	AEAKLCADBJJNMCKL...	70	1/16/04 4:55 AM	691	216.187.239.60	192.168.2.19
kabed	AEAKLCADBJJNMCKL...	60	1/15/04 11:17 PM	691	216.187.239.60	192.168.2.19
?	JCBKLCADCCBPNCFP...	50	1/16/04 2:13 AM	4	205.188.209.78	192.168.2.19
?	JDBKLCADHMBMKFHC...	50	1/15/04 8:45 PM	7	64.12.96.42	192.168.2.19
?	ECBKLCADBLJHMFPA...	50	1/16/04 7:48 AM	17	198.81.26.40	192.168.2.19
?	NBBKLCADABKLPBGMG...	50	1/16/04 7:42 AM	2	198.81.26.175	192.168.2.19
?	NBBKLCADABKLPBGMG...	50	1/16/04 2:03 AM	2	198.81.26.175	192.168.2.19
?	LJAKLCADITEHPOGPI...	50	1/16/04 12:32 AM	1	152.163.252.2	192.168.2.19
?	ECBKLCADBLJHMFPA...	50	1/16/04 2:09 AM	17	198.81.26.40	192.168.2.19

Showing 1-15 of 500 (135 Total Items)

Navigation: Refresh, Reset Filter, Status Summary, Client Summary, Date Summary, Application Sessions, Export CSV, Export XML

Internet

THR

SUM

FIG. 40A

4032

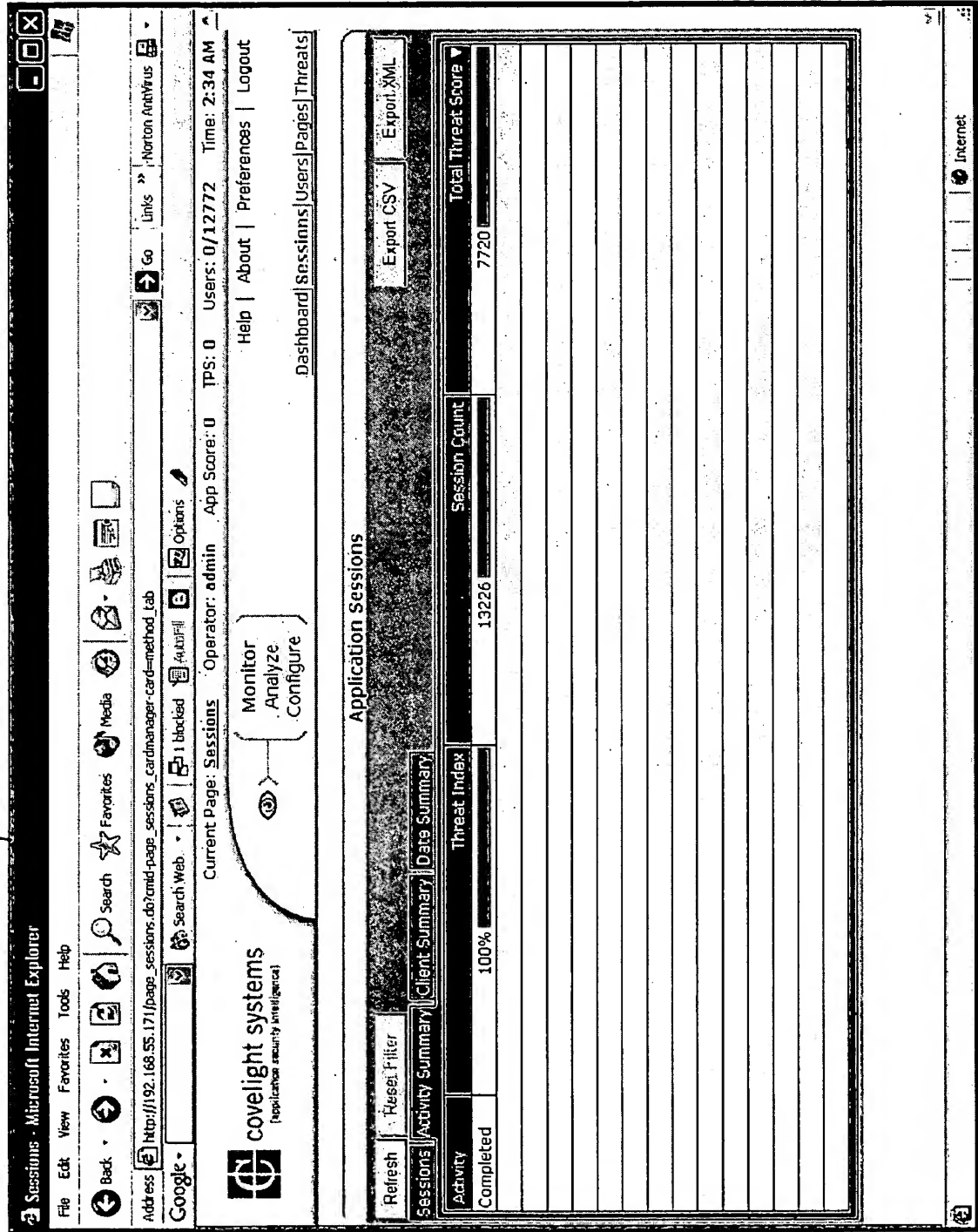


FIG. 40B



4034

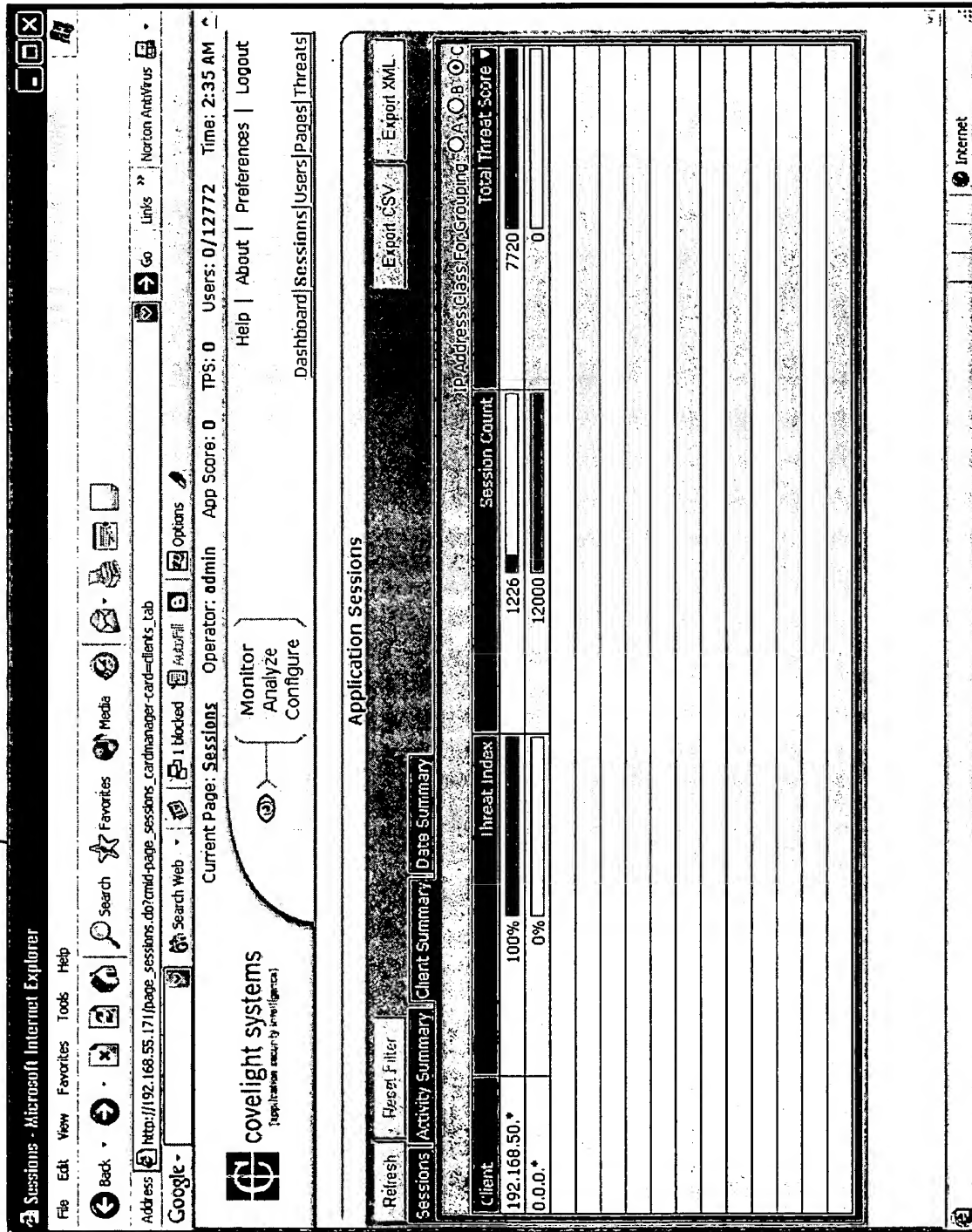


FIG. 40C

4036

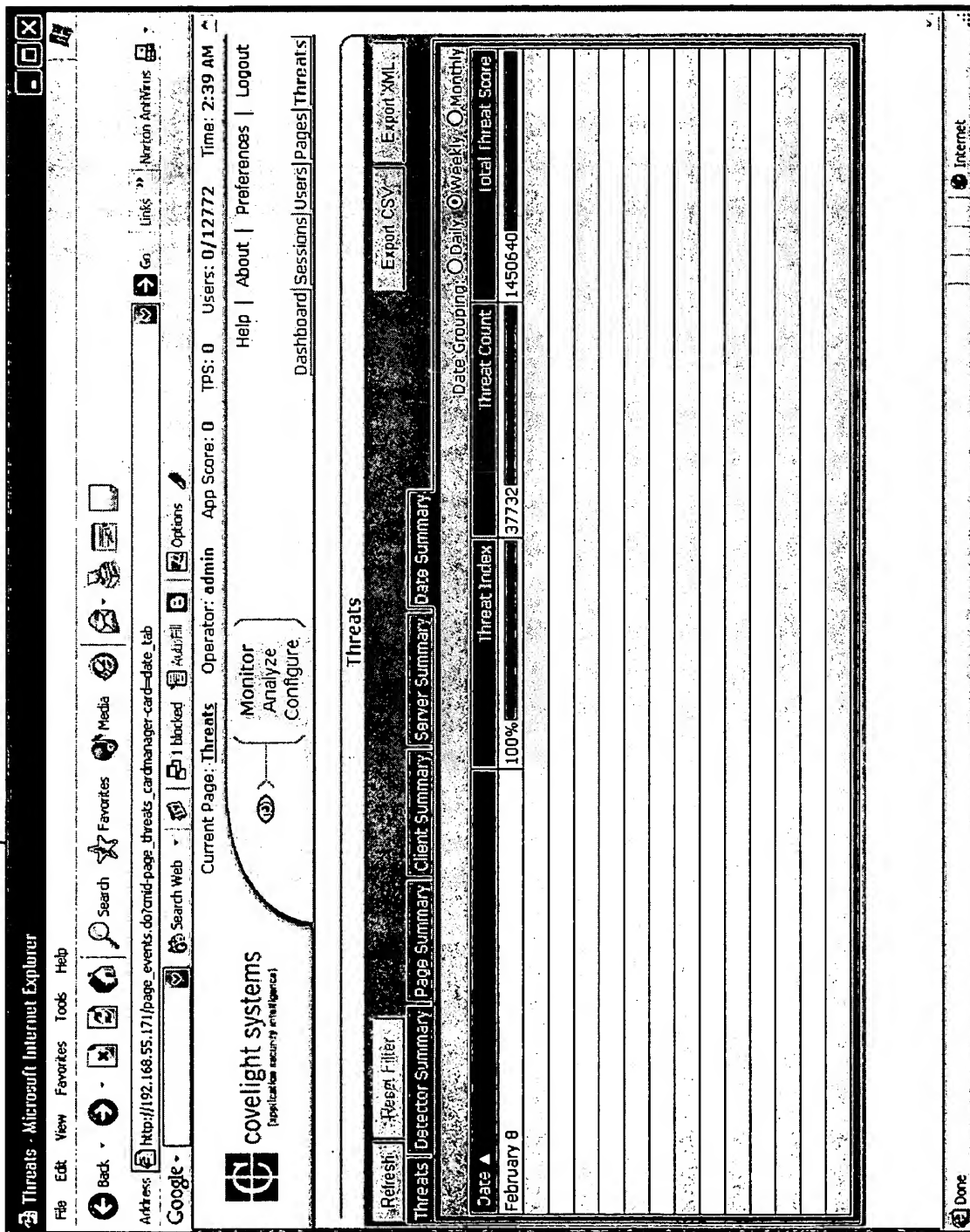


FIG. 40D

4100

Session Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: [http://192.168.55.211/page\\_sessions.do?rowlink=1074216912834120&tableid=page\\_sessions\\_table](http://192.168.55.211/page_sessions.do?rowlink=1074216912834120&tableid=page_sessions_table)

Current Page: Sessions / Session Detail Operator: virgilw App Score: 3 TPS: 0.4 Users: 20/31 Time: 11:04 AM

Monitor Analyze Configure

covelight systems

SES USE PAG

Help About Preferences Logout

Summary Sessions Users Pages Threats

THR

SUM

Session Detail

Session: MCBKLCADGONEDMBJDMNCAEON 1/500 Next

User: Hank.Cyndy (Search)

Login Method: Login Form

Start Time: 1/15/04 8:35 PM

Last Accessed Time: 1/15/04 8:36 PM

Client IP Address: 205.188.208.168 (Search)

Server IP Address: 192.168.2.19

Session Threat Score: 100

Request Count: 11

Threats: 4

View Transactions View Threats

4102 4104

Done Internet

FIG. 41

4200

Users - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: http://192.168.55.211/main.do?page=page\_users

Current Page: Users Operator: vlrqllw App Score: 3 TPS: 0.5 Users: 20/31 Time: 10:58 AM

Help | About | Preferences | Logout

Monitor Analyze Configure

covelight systems  
(application security intelligence)

SES USE PAG

Links Norton AntiVirus

Summary Sessions Users Pages Threats

4220 4222 4224 4226 4228

Export CSV Export XML

Showing 1-13 of 31 (61 Total Items)

User	Current Score	Max Score	Total Score	Total Requests	Avg Requests	Client	Flagged
wallace	10	10	50	82	13	24.123.144.98	N
rhelton	10	20	40	60	20	216.187.239.60	N
lthrash	10	30	100	520	57	216.253.195.146	N
kated	10	70	80	1382	172	216.187.239.60	N
jon	10	25	50	888	296	208.61.139.123	N
gperez	10	20	40	212	70	216.187.239.60	N
bsmith	10	20	40	258	86	216.28.152.96	N
swims123	0	10	20	124	41	68.32.75.6	N
schipton	0	10	20	36	12	216.187.239.60	N
sdarden	0	10	20	78	26	198.143.244.44	N
scavender	0	10	30	15	5	216.187.239.60	N
rwarburton	0	40	160	506	46	216.187.239.60	N
mtaylor	0	20	50	598	149	66.180.103.154	N

Refresh Reset

Users | Flagged Summary | Client Summary | Last Login Summary

Reset Delete Search

Internet

THR

SUM

4204 4206 4202 4208 4210 FIG. 42 4212 4214 4216 4218

4300

Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: http://192.168.55.211/page\_users.do?rowIndex=0&tabId=page\_users\_tab

Current Page: Users / User Detail Operator: vrgllw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:05 AM

Help About Preferences Logout

Summary Sessions Users Pages Threats

Monitor Analyze Configure

covelight systems

Session Threats

User Detail

User: wallace

Current Threat Score:	10	Last Login Time:	1/16/04 9:33 AM
Average Session Score:	8	Longest Session Duration:	1m 36s
Highest Session Score:	10	Average Session Duration:	52 s
Total Threat Score:	50	Total Session Time:	5m 13s
Total Threat Count:	11	Last Client IP Address:	24.123.144.98 &nbsp; (Search)
Total HTTP Requests:	82	Last Server IP Address:	192.168.2.19
Average HTTP Requests Per Session:	13	Active Sessions:	2
Last Reset:	Never	Total Sessions:	6

View Transactions View Threats

Flagged: ☐ Notes:

Apply

Done

THR

SUM

4304

4302

FIG. 43

4400

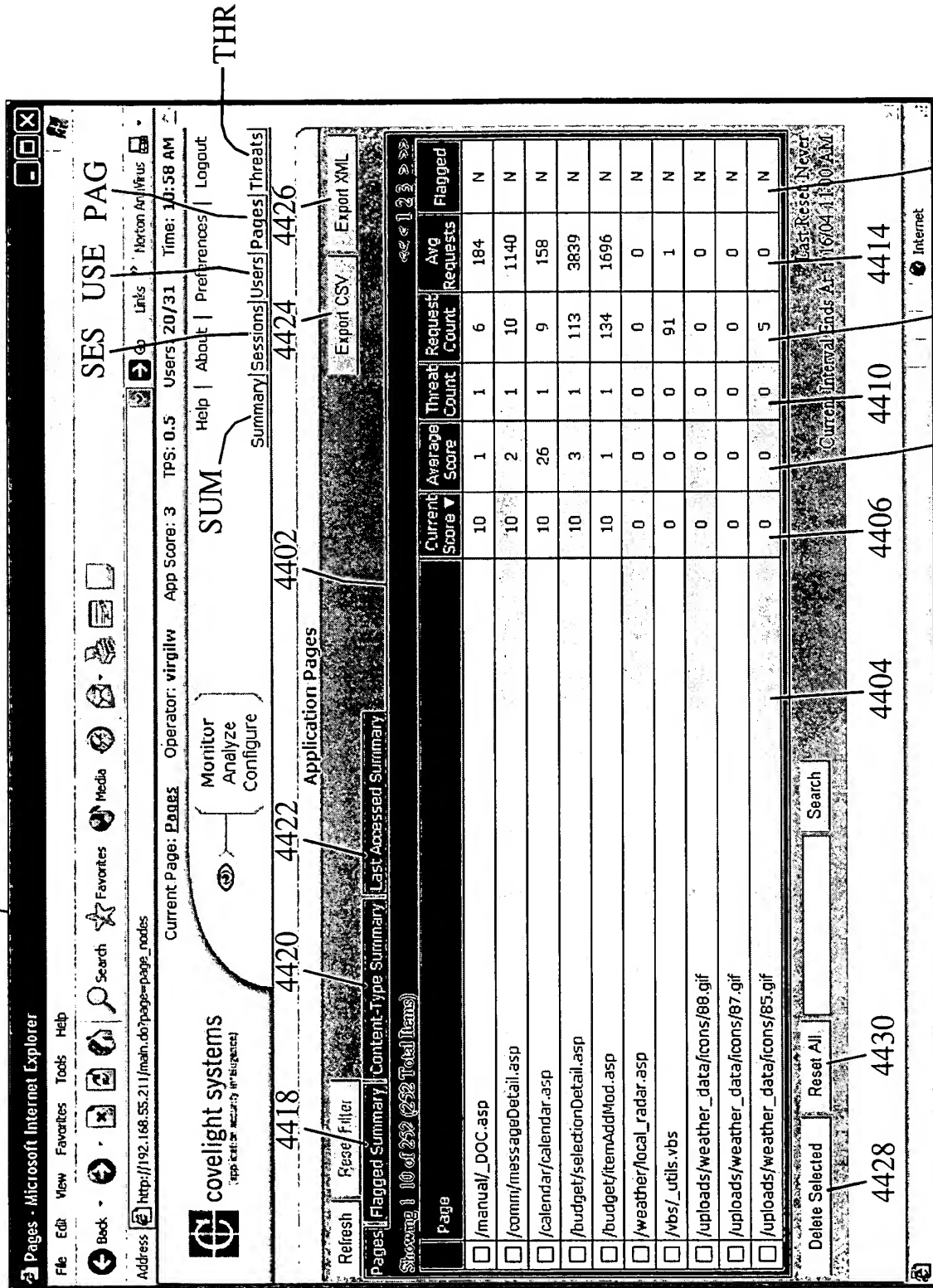


FIG. 44

4500

Page Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.211/page\_nodes.do?rowlink=%2Fmanual%2F\_DOC.asp&tableIndex=0&tableId=page\_nodes\_table

Current Page: Pages / Page Detail Operator: vlrqilw App Score: 3 TPS: 1.2 Users: 20/31 Time: 11:05 AM

Monitor Analyze Configure

Help About Preferences Logout

Summary Sessions Users Pages Threats

SES USE PAG

4502

4504

THR

4500

4502

4504

Page Detail

Page: /manual/\_DOC.asp

Content-Type:	text/html (Search)	Max Interval Score:	10
Total Score:	30	Interval Score:	0
Total Threat Count:	3	Interval Threat Count:	0
Total Request Count:	88	Interval Request Count:	0
Average Score:	1	Average Response Time:	0
Interval Count:	19	Previous Interval Score:	10
Last Accessed:	1/16/04 10:16 AM		

View Transactions View Threats

Last Reset: never

Current Interval Ends At: 1/16/04 12:00 PM

Flagged: ☐ Apply

Done Internet

FIG. 45



4600

Threats - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.211/main.do?page=page\_events

Current Page: Threats Operator: virgilw App Score: 3 TPS: 0.5 Users: 20/31 Time: 10:50 AM

Help About Preferences Logout

Monitor Analyze Configure

Summary Sessions Users Pages Threats

4618 4620 4622 4624 4626 4628 4630

Threats

Refresh Free Filter

Threats Detector Summary Page Summary Client Summary Server Summary Date Summary

Showing 1 of 104 (104 Total Items)

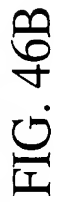
Timestamp	Score	Detector	Request URL	User	Flagged	Client
1/15/04 11:53 PM	20	Simultaneous login	/project/project.asp	rwaburton	N	216.187.239.60
1/15/04 11:45 PM	10	Login time does not match acceptable window	/auth/login.asp	rwaburton	N	65.140.140.189
1/15/04 11:45 PM	0	User login	/auth/login.asp	rwaburton	N	65.140.140.189
1/15/04 11:35 PM	10	Login time does not match acceptable window	/auth/login.asp	kabied	N	216.187.239.60
1/15/04 11:35 PM	0	User login	/auth/login.asp	kabied	N	216.187.239.60
1/15/04 11:33 PM	10	Login time does not match acceptable window	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	0	User login	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	10	Login time does not match acceptable window	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	0	User login	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:31 PM	10	Web crawler	/robots.txt	?	N	195.101.94.101
1/15/04 11:23 PM	10	Login time does not match acceptable window	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	0	User login	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	10	Login time does not match acceptable window	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	0	User login	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:22 PM	10	Login time does not match acceptable window	/auth/login.asp	josh	N	216.187.239.60

4604 4606 4602 4608 4610 4612 4614 4616

Internet

FIG. 46A





4634

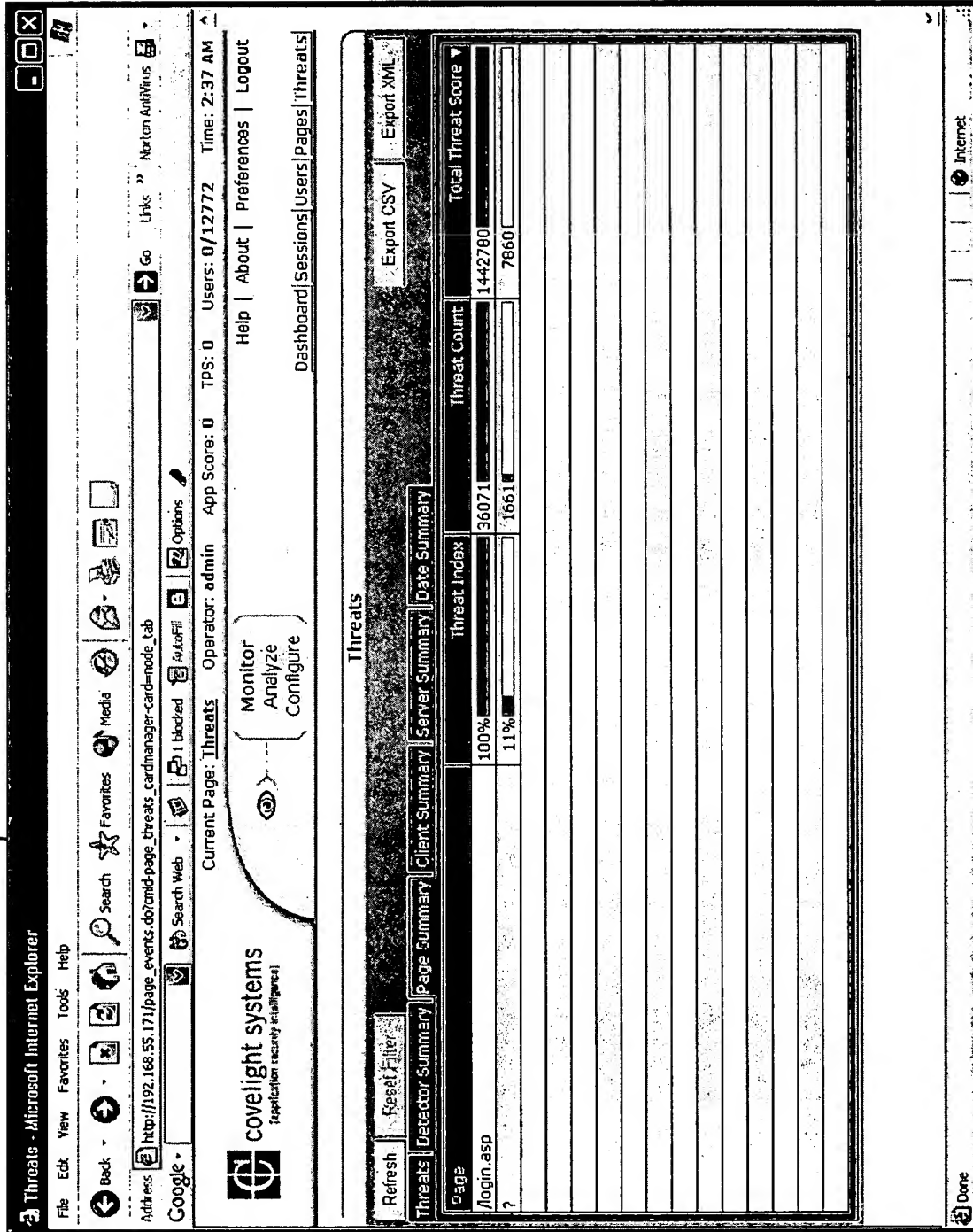


FIG. 46C

4636

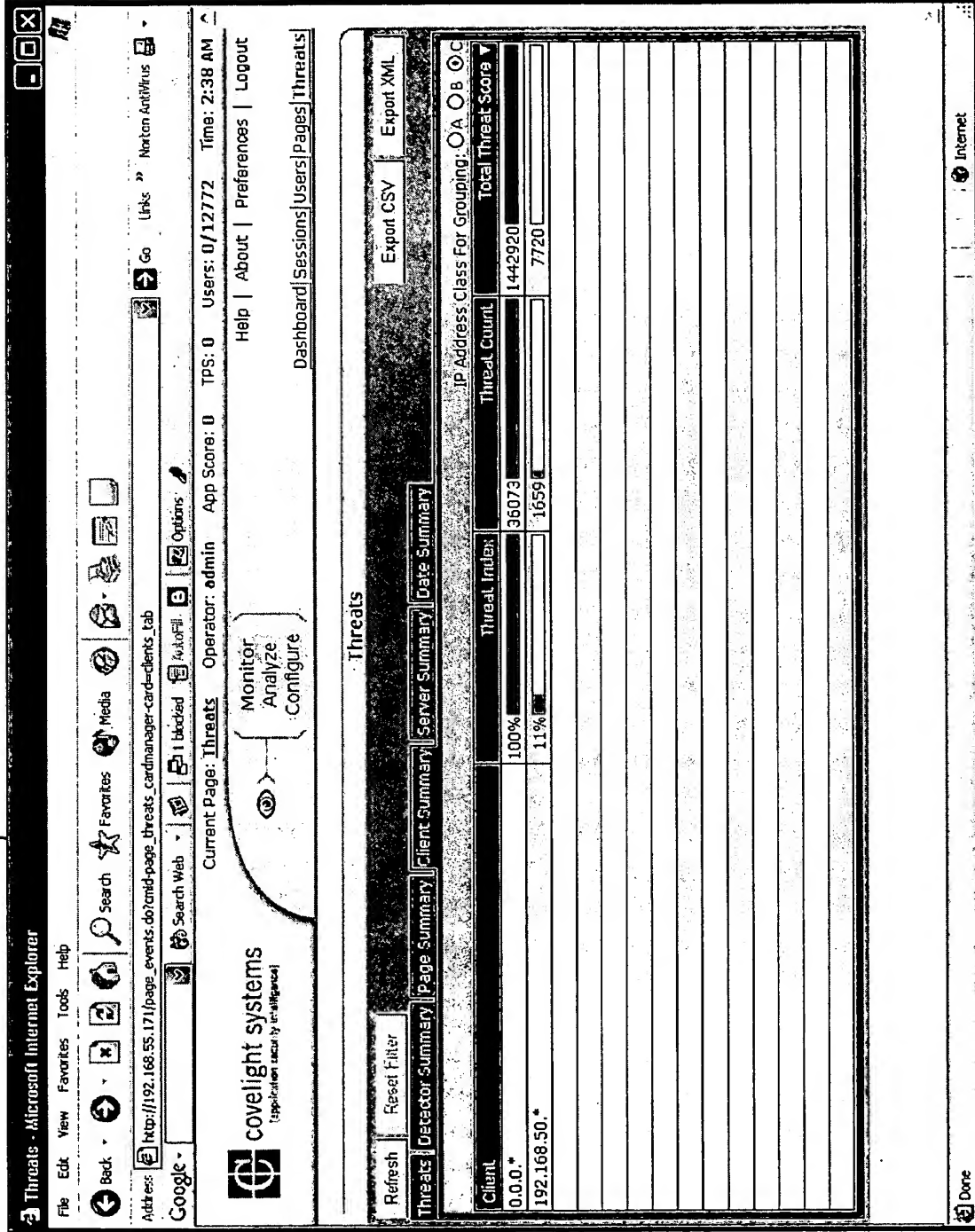


FIG. 46D



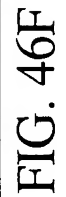


FIG. 46F

4700

Threat Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: [http://192.168.55.211/page\\_events.do?rowIndex=1074228788814103&tabIndex=0&tabId=page\\_threats\\_table](http://192.168.55.211/page_events.do?rowIndex=1074228788814103&tabIndex=0&tabId=page_threats_table)

Current Page: Threats / Event Detail Operator: virgilw App Score: 3 TPS: 0.4 Users: 20/31 Time: 1/15/04 11:06 AM

Help About Preferences Logout

Summary Sessions Users Pages Threats

Monitor Analyze Configure

covelight systems

Threat Detail

Timestamp: 1/15/04 11:53 PM

Threat Score: 20

Detector: Simultaneous login (Search)

Description: User is logged in twice on different sessions

Request URI: /project/project.asp (Search)

User: rwarburton (Search)

Flagged: ☐

Session ID: L0AKLCADCGJHMKMICHJKHPLO (Search)

Client IP address: 216.187.239.60 (Search)

Server IP address: 192.168.2.19:80 (Search)

1/104 Next

Internet

REPLACEMENT SHEET  
Title: METHODS, SYSTEMS AND COMPUTER  
PROGRAM PRODUCTS FOR MONITORING USER  
LOGIN ACTIVITY FOR A SERVER APPLICATION  
Applicant(s): Motsinger et al.  
Atty. Docket No.: 1503/7

FIG. 47

4800

Transactions - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.21/main.do?page=page\_bone

Go Links Norton AntiVirus

Current Page: Transactions Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:00 AM

Help About Preferences Logout

Transactions | Network

4822 4824 4826 4828 4830 4832 4834 4836 4838

Transactions

Refresh Reset Filter Export CSV Export XML

Showing 1-15 of 1000 (29023 Total Items)

Method	URI	User	Status	Content Length	Content Type	Threat Score	Timestamp	Response Time
GET	/	?	302	135	text/html	0	01/16/04 11:00 AM	6
GET	/images/addloc.gif	?	200	1864	image/gif	0	01/16/04 11:00 AM	2
GET	/images/additem.gif	?	200	1529	image/gif	0	01/16/04 11:00 AM	0
GET	/images/selectsum.gif	?	200	2079	image/gif	0	01/16/04 11:00 AM	0
GET	/images/rt_tabnotch.gif	?	200	49	image/gif	0	01/16/04 11:00 AM	0
GET	/images/lt_tabnotch.gif	?	200	48	image/gif	0	01/16/04 11:00 AM	0
GET	/images/s.gif	?	200	43	image/gif	0	01/16/04 11:00 AM	0
GET	/js/menu.js	?	200	897	application/x-javascript	0	01/16/04 11:00 AM	0
GET	/vbs/_utils.vbs	?	200	956	text/vbscript	0	01/16/04 11:00 AM	0
GET	/js/modal.js	?	200	421	application/x-javascript	0	01/16/04 11:00 AM	0
GET	/js/util.js	?	200	5608	application/x-javascript	0	01/16/04 11:00 AM	3
GET	/js/_const.js	?	200	200	application/x-javascript	0	01/16/04 11:00 AM	0
GET	/include/builder_styles/stylemain.css	?	200	12924	text/css	0	01/16/04 11:00 AM	0
GET	/budget/itemaddmod.asp	jon	200	5488	text/html	0	01/16/04 11:00 AM	199
GET	/budget/selectionDetail.asp	jon	200	10454	text/html	0	01/16/04 11:00 AM	2026

Internet

4804 4802 4806 FIG. 48 4808 4810 4812 4814 4816 4818 4820

4900

Transaction Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Stop Search Favorites Media

Address: http://192.168.55.211/page\_bons.do?rowlink=107426881090038488&tableIndex=188&table=page\_bons\_table

Go Links » Norton Antivirus

Current Page: Transactions / Transaction Detail Operator: virgilw App Score: 3 TPS: 0.1 Users: 20/31 Time: 11:07 AM

Help | About | Preferences | Logout

Transactions | Network

**covelight systems**  
(415) 633-1000

Monitor Analyze Configure

### Transaction Detail

Transaction: 107426881090038488 <Previous 19/1000 Next>

Timestamp: 1/16/04 11:00 AM HTTP response: 302 (Search)

Method: POST (Search) Content Length: 175

URI: /budget/itemAddm od.asp (Search) Content Type: text/html (Search)

User: ? (Search) Server Response Time: 2.8 s

Client IP Address: 66.180.103.154 (Search) Server IP Address: 192.168.2.19:80 (Search)

Session ID: 1 (Search)

### Parameters

Name	Value
IngAttachmentsCount	0
chkInventory	0
IngEventId	
txtItemDesc	co #3
binNewItem	False
DeleteOneAttachment	
actionType	Save
strWebLink	
IngLocationId	650189281
IngOldProjectId	560003098
oldItemId	
itemId	501077459
txtItemInfo	
IngSelectionId	600062400

Done Internet

FIG. 49



5000

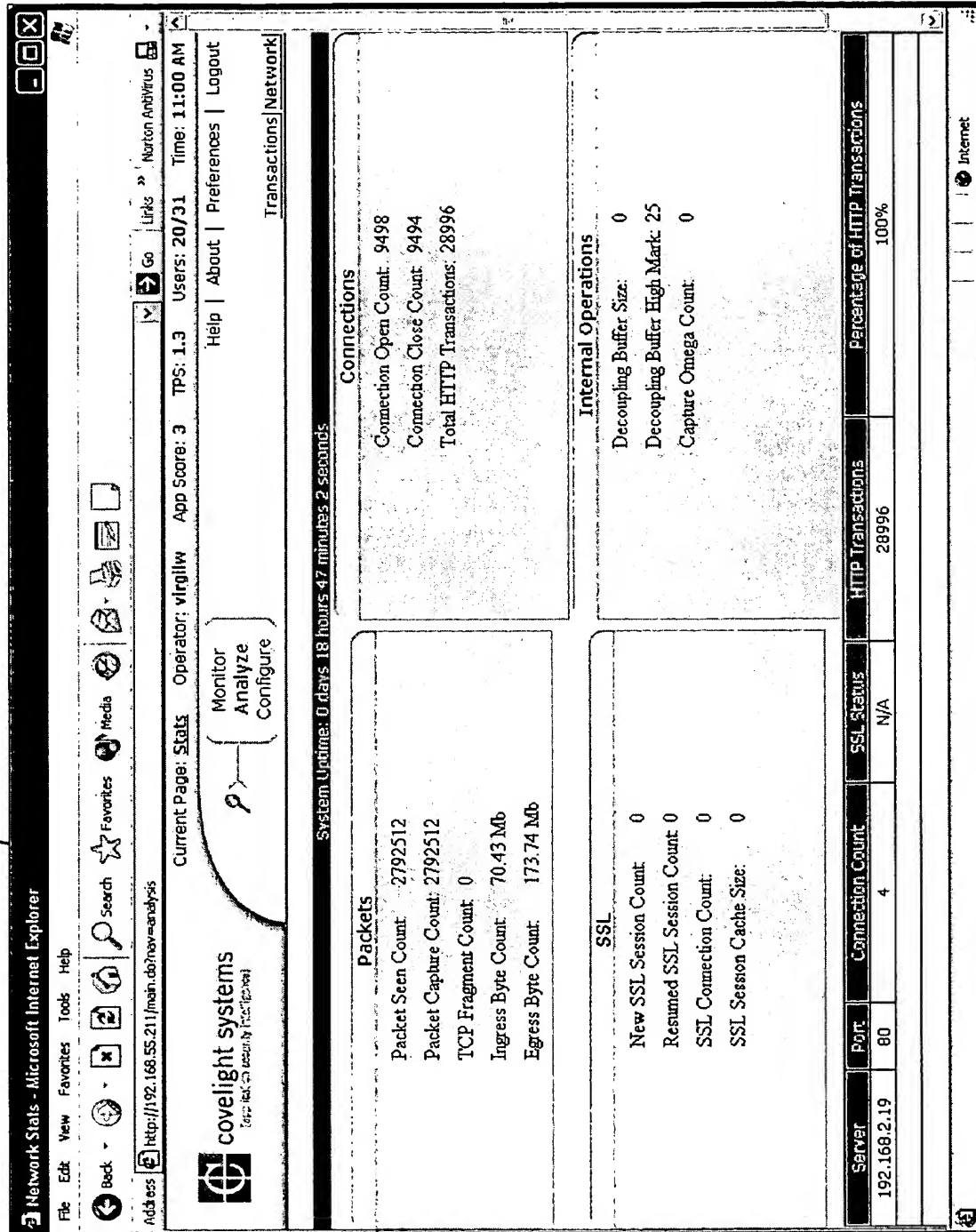


FIG. 50

5100

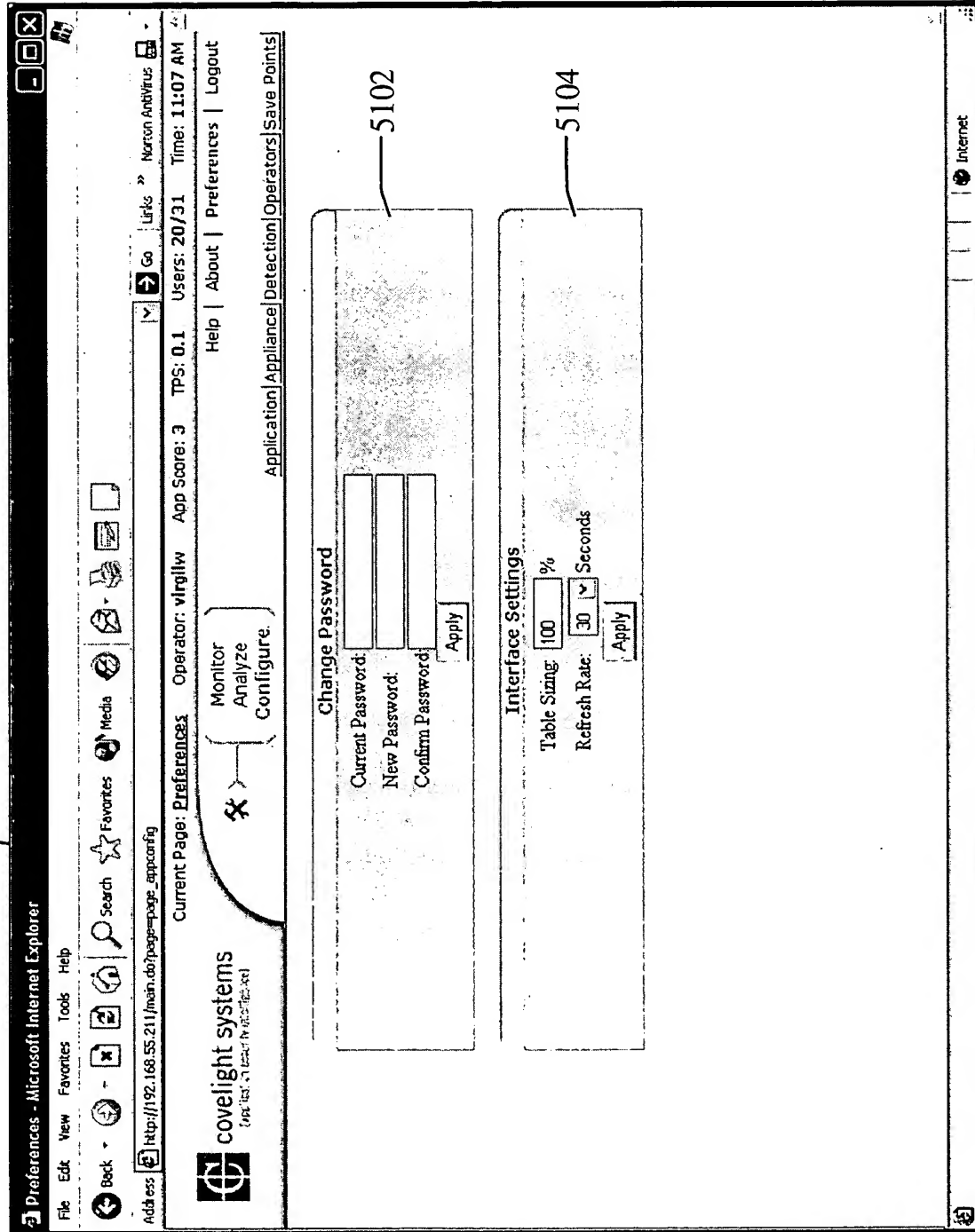


FIG. 51



5300

Appliance - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address [http://192.168.55.211/page\\_sensorcfg.do?cmd=page\\_cfappliance\\_card=smtpserversettings\\_tab](http://192.168.55.211/page_sensorcfg.do?cmd=page_cfappliance_card=smtpserversettings_tab)

Go Users: 23/31 TPS: 1.7 App Score: 4 Operator: virgilw Time: 11:20 AM

Help About Preferences Logout

Application Appliance Detection Operators Save Points

Monitor Analyze Configure

covelight systems  
the best in security technology

Control Network Time Firmware SMTP Server

SMTP Server mail.invalid.com

Username

Password

From Name Covelight Sensor

From Address anonymous@invalid.com

Enable Pop before send ☐

Apply

Internet

FIG. 53

5400

Appliance - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: http://192.168.55.211/page\_sensorcfg.do?cmd=page\_cfg&appliance\_cardmanager1-card-time\_tab

Go Links » Norton AntiVirus

Users: 20/31 Time: 11:11 AM

Help About Preferences Logout

Application Appliance Detection Operators Save Points

covelight systems  
(Information Security Intelligence)

Current Page: Appliance Operator: virgilw App Score: 4 TPS: 1.2

Monitor Analyze Configure

Control Network Time Firmware SMTP Server

Month/Day/Year Hours:Minutes Timezone

01 / 16 / 2004 11 : 11 AM Universal Time UCT

Set Time

5402

Internet

FIG. 54

5500

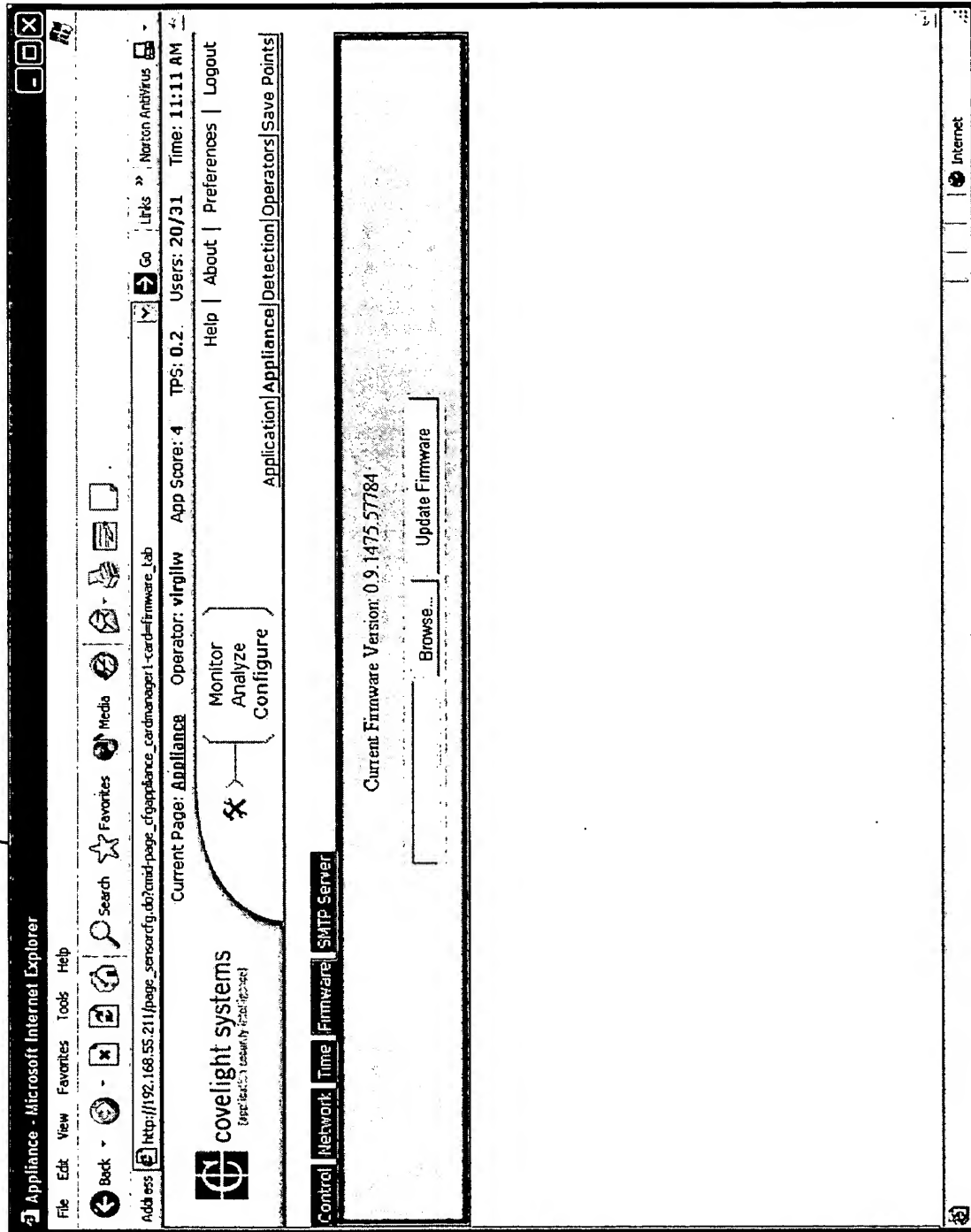


FIG. 55

5600

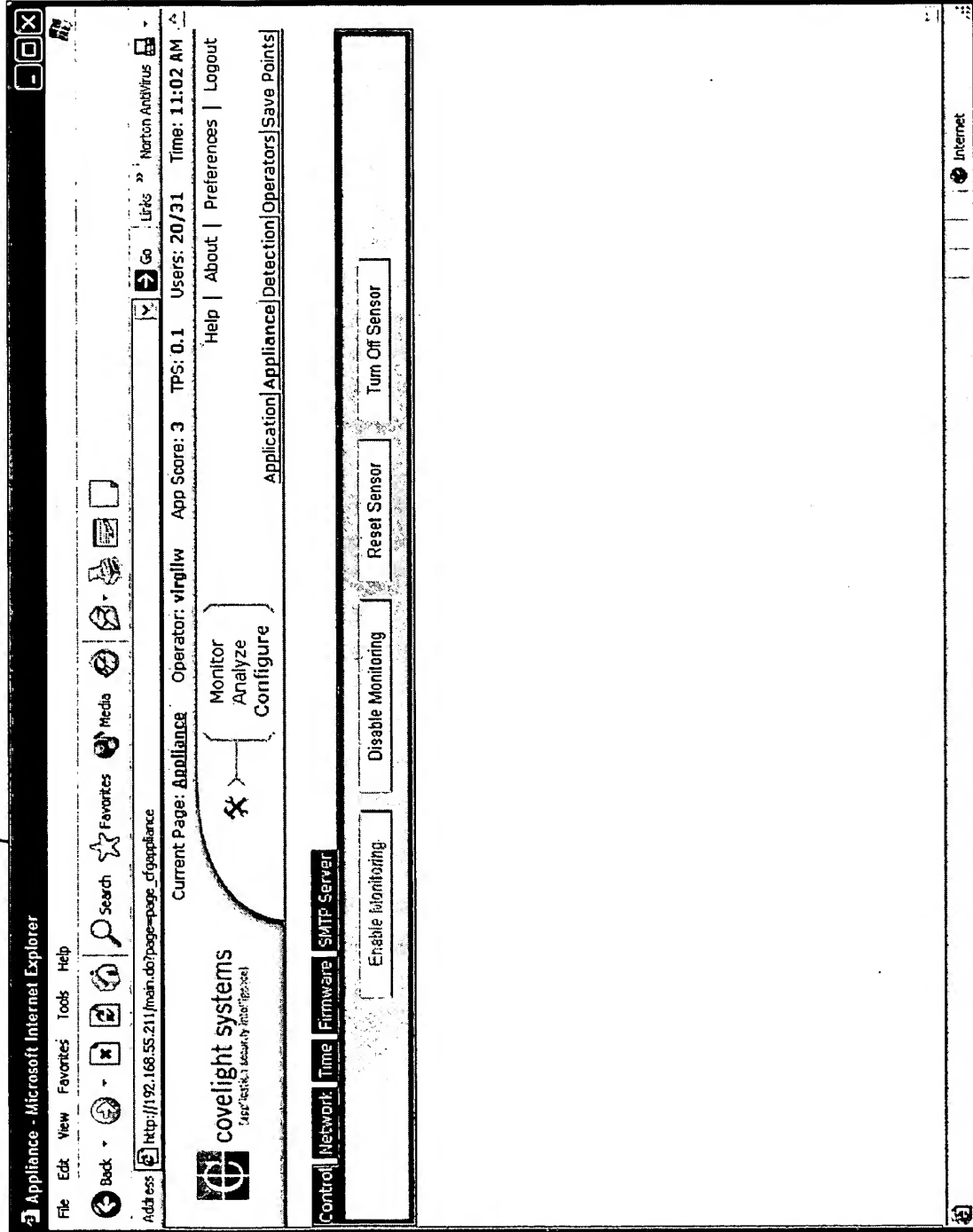


FIG. 56



5704

5706

FIG. 57



5800

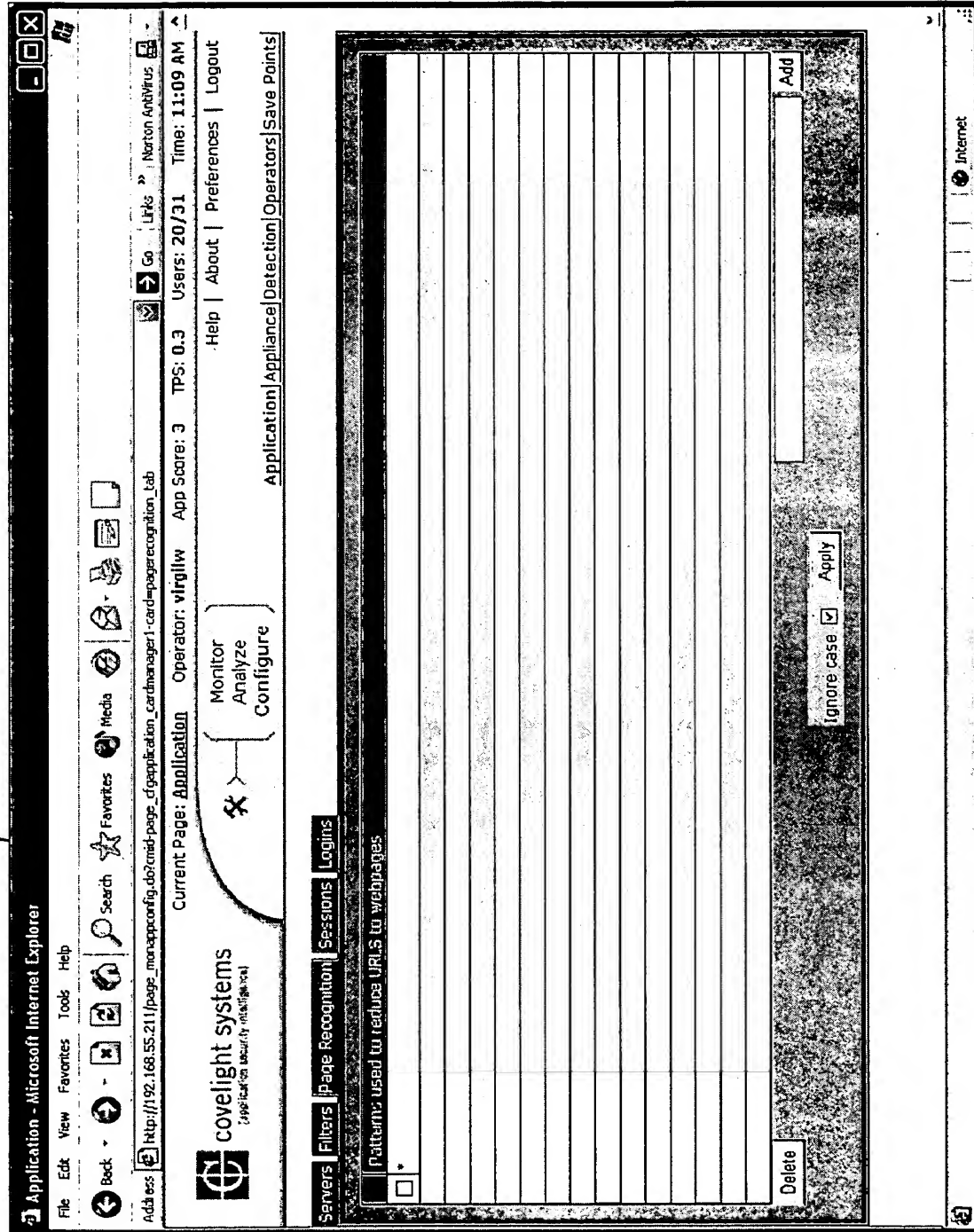


FIG. 58

5900

Application - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.55.211/page\_sessiondetection/g.do?mid=page\_ofapplication\_cardmanager1-card=sessions\_tab

Go Links » Norton AntiVirus

Current Page: Application Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:09 AM

Help About Preferences Logout

Application Appliance Detection Operators Save Points

7002

Monitor Analyze Configure

covelight systems  
 (Log test, and about the intelligence)

Servers Filters Page Recognition Sessions Logins

Session Management

Application Server Features

Standard J2EE sessions  
 Standard PHP sessions  
 Standard ASP sessions  
 Custom sessions

Permissive sessions  
 Strict sessions

Session timeout in minutes 125  
☒ Ignore Case

Custom Settings

☒ Sessions are cookie based  
 Session cookie name ASPSESSIONID  
☒ Treat cookie name as a prefix

☐ Session ID may be encoded as a query argument in URLs  
 Name of query argument

☐ Session ID may be encoded as a path parameter in URLs  
 Name of path parameter

Internet

FIG. 59

6000

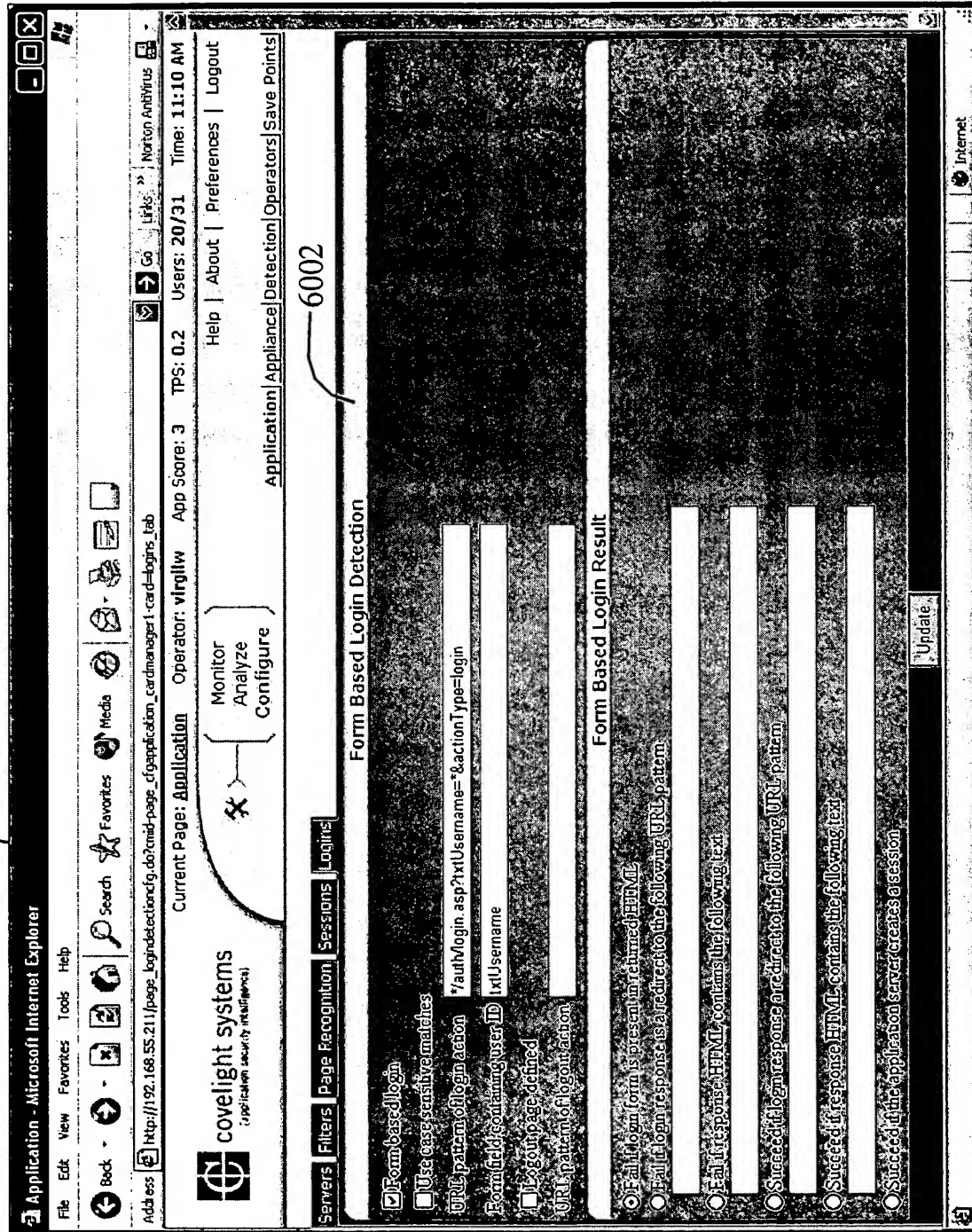


FIG. 60



FIG. 61

6200

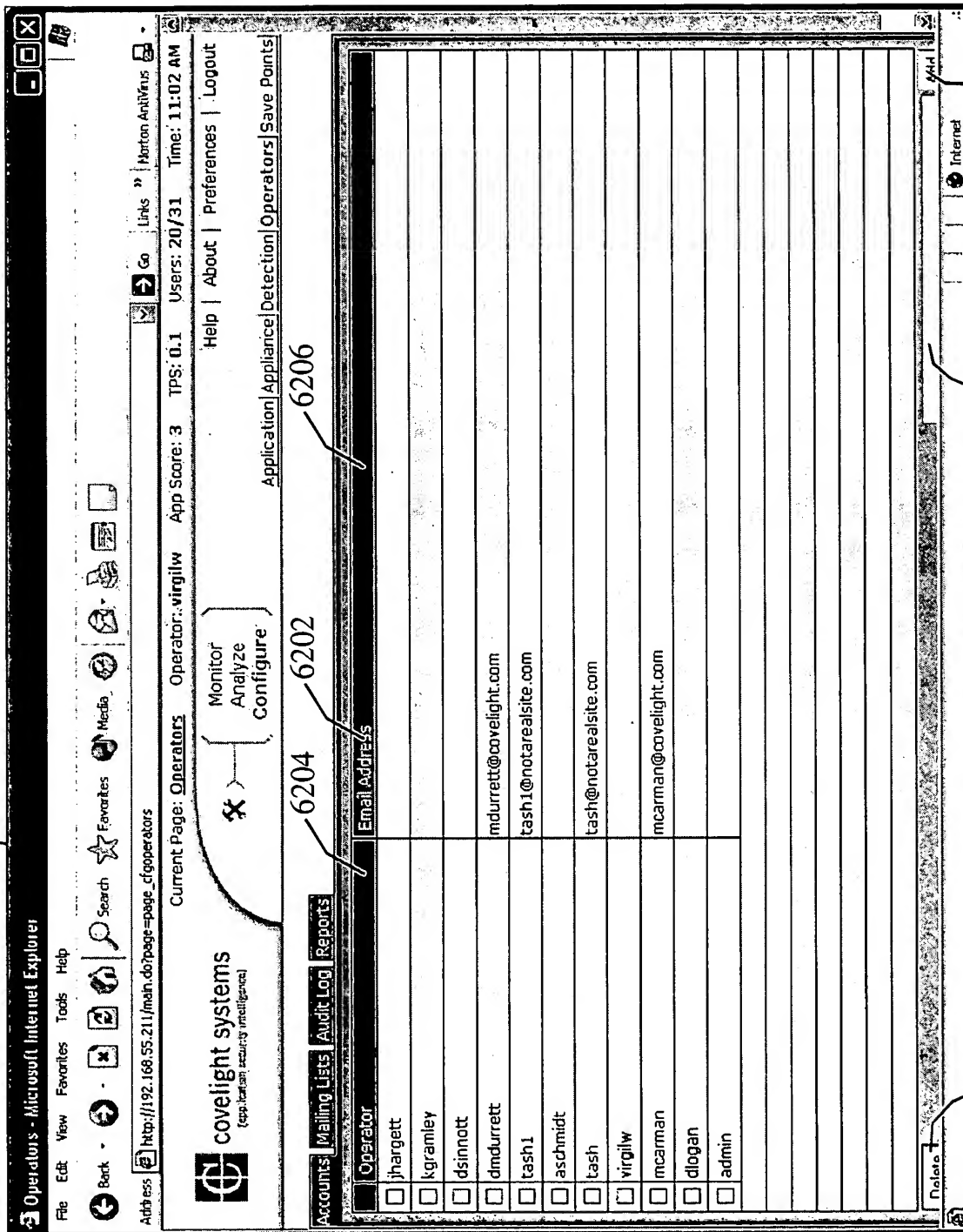


FIG. 62

6208

6212

6210

6300

Operator Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address: http://192.168.55.21/page\_operators.do?rowId=jphargett&afIndex=0&afId=page\_operators.cfg.table1

Go Links Norton Antivirus

Current Page: Operators Operator: jphargett App Score: 4 TPS: 3.3 Users: 23/31 Time: 11:33 AM

Help | About | Preferences | Logout

Application | Appliance | Detection | Operators | Save Points

covelight systems  
Transaction Security Technology

Monitor  
Analyze  
Configure

Operator Detail

Username: jphargett

Email Address:

Password:

Confirm Password:

Rights:

☒ Administration

☒ Account Maintenance

☒ Transaction Viewing

Update Cancel

6302

6304

6306

6308

6310

6312

Done Internet

FIG. 63

6400

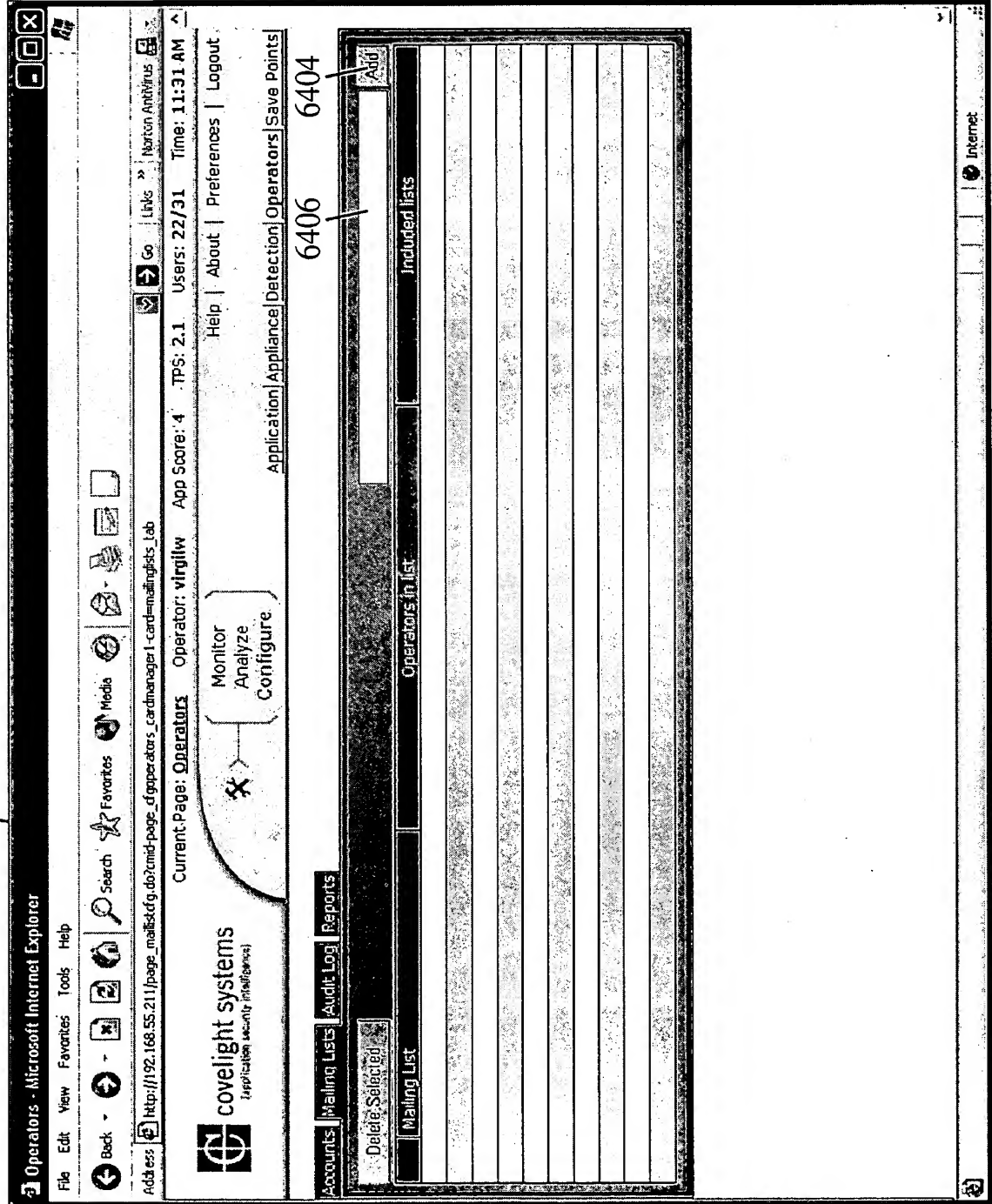


FIG. 64



6500

Operators - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address: http://192.168.55.211/page\_operators\_cfg.do?mid=page\_cfoperators\_cardmanager1-card=auditlog\_tab

Current Page: Operators Operator: virgilw App Score: 4 TPS: 2.9 Users: 22/31 Time: 11:32 AM

Help About Preferences Logout

Application: [Detection] Operators [Save Points]

6512 6514

Export CSV Export XML

6508

6506

6504

6502

Refresh

Showing 1-18 of 24

Date	Message	IP Address	Operator
1/16/04 11:28 AM	Login successful	192.168.55.101	virgilw
1/16/04 10:57 AM	Login successful	192.168.55.101	virgilw
1/16/04 10:11 AM	Changed operator virgilw refresh rate to 30	192.168.55.17	virgilw
1/16/04 10:11 AM	Changed operator virgilw refresh rate to 30	192.168.55.17	virgilw
1/16/04 9:30 AM	Login successful	192.168.55.17	virgilw
1/16/04 9:27 AM	Login successful	65.81.86.237	dmdurrett
1/16/04 9:26 AM	Login successful	192.168.55.17	virgilw
1/16/04 8:47 AM	Login successful	65.81.86.237	dmdurrett
1/16/04 8:47 AM	Logout successful	65.81.86.237	dmdurrett
1/16/04 8:17 AM	Login successful	65.81.86.237	dmdurrett
1/16/04 7:37 AM	Login successful	65.81.86.237	dmdurrett
1/15/04 7:34 PM	Login successful	192.168.55.101	virgilw
1/15/04 7:34 PM	Login denied for admin	192.168.55.101	?
1/15/04 7:14 PM	Login successful	192.168.55.101	virgilw
1/15/04 6:34 PM	Login successful	192.168.55.10	dmdurrett
1/15/04 6:04 PM	Login successful	69.132.60.166	jhargett
1/15/04 5:46 PM	Login successful	65.81.86.237	admin
1/15/04 5:24 PM	Login successful	192.168.55.10	dmdurrett

6510

6500

6502

6504

6506

6508

6512

6514

Internet

FIG. 65



6600

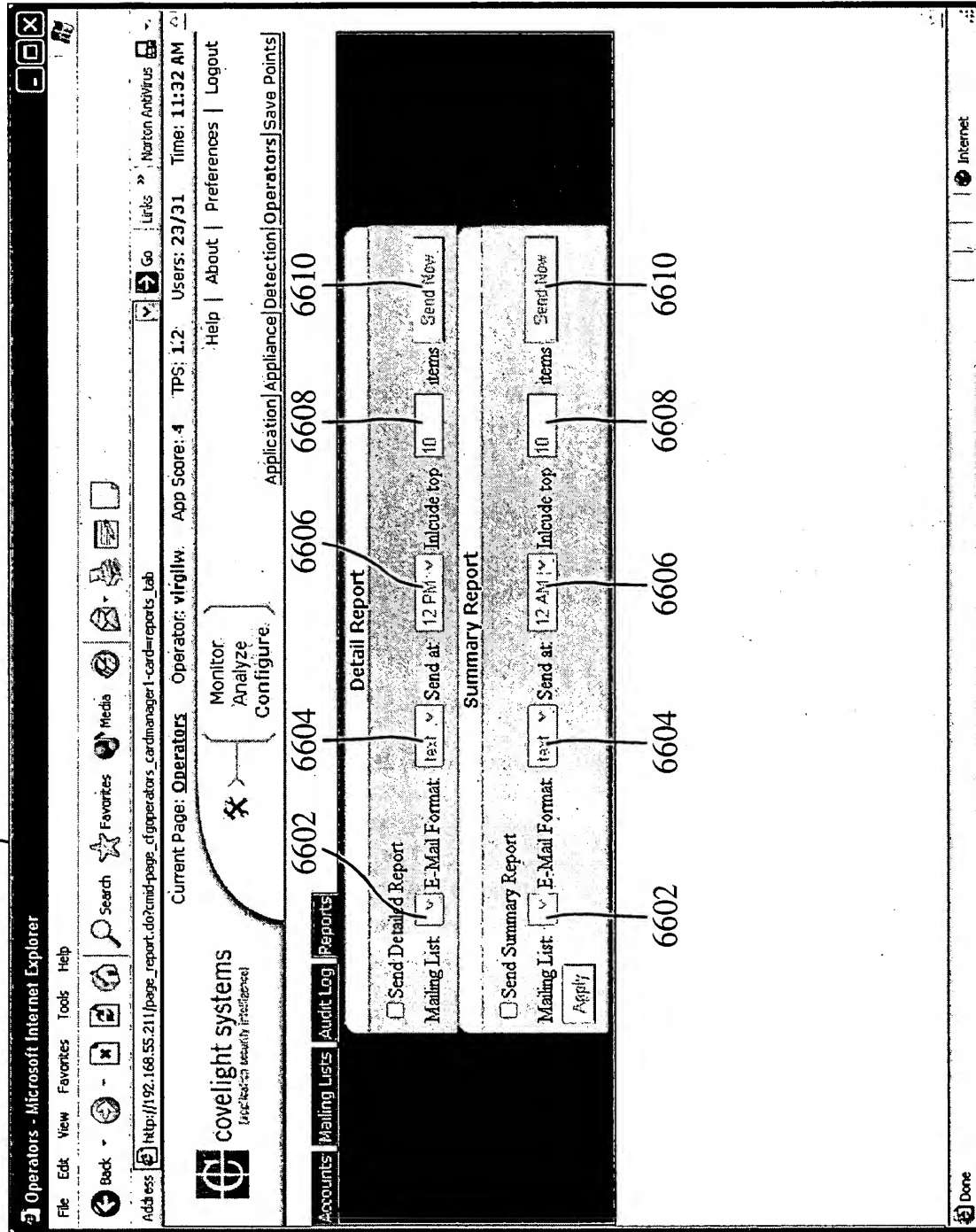


FIG. 66



FIG. 67

6800

Detector Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address: http://192.168.55.21/page\_detectors.do?rowIndex=3&tabIndex=3&tabIndex=page\_detectors\_detectorTable

Go Links » Norton AntiVirus

Current Page: Detection / Detector Detail Operator: virgilw App Score: 4 TPS: 0.4 Users: 23/31 Time: 11:37 AM

Help About Preferences Logout

Application Appliance Detection Operators Save Points

covelight systems  
Unification Search (TM) Device

Monitor Analyze Configure

Detector Detail

Name: Application request rate too high

Category: Usage Policy

Description: Detects when the overall rate of HTTP requests to the application is too high. The sensor takes samples of the transaction-per-second (TPS) throughput of the monitored application. When the value is higher than expected, it might suggest that an attack is progress or that

Status: Working

Enabled: ☒

Event Text: Application throughput (TPS) is too high

Threat Score: 70

E-mail Alerts

Send E-mail Alerts: ☒ (No distribution lists are defined)

Event Count Limit:

Distribution List:

Detector Tuning

Throughput limit as transactions-per-second (TPS):

Apply

Done Internet

FIG. 68

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING USER LOGIN ACTIVITY FOR A SERVER APPLICATION  
Applicant(s): Motsinger et al.  
Atty. Docket No.: 1503/7



FIG. 69



FIG. 70

7008

7100

Access List Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.171/detail\_usl.do

Google

Search Web Search Web

Current Page: Detection / detail\_usl Operator: admin App Score: 0 TPS: 0 Users: 0/12772 Time: 2:40 AM

Help About Preferences Logout

Application Appliance Detection Operators Save Points

Monitor Analyze Configure

7102

test

7112 7116

Comments

Users

7114

7110

7104

7120

7118

7108

IP Address Patterns

IP Address Pattern

192.168.55.\*

Add Pattern

Deleted

IP Address Pattern

Scoring Adjustment

From Day From Hour To Day To Hour Score Adjustment

Friday 6 PM Sunday 8 AM 100%

Disabled Detectors

Detector

Abnormal node error rate

7124

7126

Abnormal node error rate

Disable all except the chosen detectors

Add Detector

Deleted

From Friday From 6 PM To Sunday To 8 AM

Add Adjustment

Adjustment %: 100

7122 7128 7132

7138 7140

Done

FIG. 71 7134 7136 7130